achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available control technology economically achievable (BAT):

- (a) Direct-reduced iron. [Reserved]
- (b) Forging operations. [Reserved]
- (c) *Briquetting*. There shall be no discharge of process wastewater pollutants.

§ 420.134 New source performance standards (NSPS).

New sources subject to this subpart must achieve the following new source performance standards (NSPS), as applicable.

(a) Direct-reduced iron.

SUBPART M—NEW SOURCE PERFORMANCE STANDARDS (NSPS)

Pollutant	Maximum daily ¹	Maximum monthly avg. ¹
TSS	0.00998 (²)	0.00465 (²)

- ¹ Pounds per thousand pound of product. ² Within the range of 6.0 to 9.0.
- (b) Forging operations.

SUBPART M—NEW SOURCE PERFORMANCE STANDARDS (NSPS)

Pollutant	Maximum daily ¹	Maximum monthly avg. ¹
O&G (as HEM) TSSpH	0.00746 0.0123 (²)	0.00446 0.00508 (²)

- ¹ Pounds per thousand pound of product. ² Within the range of 6.0 to 9.0.
- (c) *Briquetting*. There shall be no discharge of process wastewater pollutants to waters of the U.S.

§ 420.135 Pretreatment standards for existing sources (PSES).

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and must achieve the following pretreatment standards for existing sources (PSES):

- (a) Direct-reduced iron. [Reserved]
- (b) Forging operations. [Reserved]
- (c) *Briquetting*. There shall be no discharge of process wastewater pollutants to POTWs.

§ 420.136 Pretreatment standards for new sources (PSNS).

Except as provided in 40 CFR 403.7, any new source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and must achieve the following pretreatment standards for new sources (PSNS):

- (a) Direct-reduced iron. [Reserved]
- (b) Forging operations. [Reserved]
- (c) *Briquetting*. There shall be no discharge of process wastewater pollutants to POTWs.

§ 420.137 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best control technology for conventional pollutants (BCT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best control technology for conventional pollutants (BCT): The limitations shall be the same as those specified for conventional pollutants (which are defined in 40 CFR 401.16) in § 420.132 for the best practicable control technology currently available (BPT).

PART 421—NONFERROUS METALS MANUFACTURING POINT SOURCE CATEGORY

GENERAL PROVISIONS

Sec.

- 421.1 Applicability.
- 421.2 [Reserved]
- 421.3 Monitoring and reporting requirements.
- 421.4 Compliance date for pretreatment standards for existing sources (PSES).
- 421.5 Removal allowances for pretreatment standards.

Subpart A—Bauxite Refining Subcategory

- 421.10 Applicability; description of the bauxite refining subcategory.
- 421.11 Specialized definitions.
- 421.12 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

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- 421.13 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.14 [Reserved]
- 421.15 Standards of performance for new sources.
- 421.16 Pretreatment standards for new sources.

Subpart B—Primary Aluminum Smelting Subcategory

- 421.20 Applicability: description of the primary aluminum smelting subcategory.
- 421.21 Specialized definitions.
- 421.22 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.23 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.24 Standards of performance for new sources.
- 421.25 [Reserved]
- 421.26 Pretreatment standards for new sources.
- 421.27 [Reserved]

Subpart C—Secondary Aluminum Smelting Subcategory

- 421.30 Applicability: Description of the secondary aluminum smelting subcategory.
- 421.31 Specialized definitions.
- 421.32 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.33 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.34 Standards of performance for new sources.
- 421.35 Pretreatment standards for existing sources.
- 421.36 Pretreatment standards for new sources.
- 421.37 [Reserved]

Subpart D—Primary Copper Smelting Subcategory

- 421.40 Applicability: Description of the primary copper smelting subcategory.
- 421.41 Specialized definitions.
- 421.42 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best

- practicable control technology currently available.
- 421.43 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.44 Standards of performance for new sources.
- 421.45 [Reserved]
- 421.46 Pretreatment standards for new sources.
- 421.47 [Reserved]

Subpart E—Primary Electrolytic Copper Refining Subcategory

- 421.50 Applicability: Description of the primary electrolytic copper refining subcategory.
- 421.51 Specialized definitions
- 421.52 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.53 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.54 Standards of performance for new sources.
- 421.55 [Reserved]
- 421.56 Pretreatment standards for new sources.
- 421.57 [Reserved]

Subpart F—Secondary Copper Subcategory

- 421.60 Applicability: Description of the secondary copper subcategory.
- 421.61 Specialized definitions.
- 421.62 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.63 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.64 Standards of performance for new sources.
- 421.65 Pretreatment standards for existing sources.
- 421.66 Pretreatment standards for new sources.
- 421.67 [Reserved]

Subpart G—Primary Lead Subcategory

- 421.70 Applicability: Description of the primary lead subcategory.
- 421.71 Specialized definitions.

- 421.72 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.73 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.74 Standards of performance for new sources.
- 421.75 Pretreatment standards for existing sources.
- 421.76 Pretreatment standards for new sources.
- 421.77 [Reserved]

Subpart H—Primary Zinc Subcategory

- 421.80 Applicability: Description of the primary zinc subcategory.
- 421.81 Specialized definitions.
- 421.82 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.83 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.84 Standards of performance for new sources.
- 421.85 Pretreatment standards for existing sources.
- 421.86 Pretreatment standards for new sources.
- 421.87 [Reserved]

Subpart I—Metallurgical Acid Plants Subcategory

- 421.90 Applicability: Description of the metallurgical acid plants subcategory.
- 421.91 Specialized definitions.
- 421.92 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available
- 421.93 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.94 Standards of performance for new sources.
- 421.95 Pretreatment standards for existing sources.
- 421.96 Pretreatment standards for new sources.
- 421.97 [Reserved]

Subpart J—Primary Tungsten Subcategory

- 421.100 Applicability: Description of the primary tungsten subcategory.
- 421.101 Specialized definitions.
- 421.102 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.103 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.104 Standards of performance for new sources.
- 421.105 Pretreatment standards for existing sources.
- 421.106 Pretreatment standards for new sources.
- 421.107 [Reserved]

Subpart K—Primary Columbium-Tantalum Subcategory

- 421.110 Applicability: Description of the primary columbium-tantalum subcategory.
- 421.111 Specialized definitions.
- 421.112 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.113 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.114 Standards of performance for new sources.
- 421.115 Pretreatment standards for existing sources.
- 421.116 Pretreatment standards for new sources.
- 421.117 [Reserved]

Subpart L—Secondary Silver Subcategory

- 421.120 Applicability: Description of the secondary silver subcategory.
- 421.121 Specialized definitions.
- 421.122 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.123 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.124 Standards of performance for new sources.
- 421.125 Pretreatment standards for existing sources.

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421.126 Pretreatment standards for new sources.

421.127 [Reserved]

Subpart M—Secondary Lead Subcategory

- 421.130 Applicability: Description of the secondary lead subcategory.
- 421.131 Specialized definitions.
- 421.132 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.133 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.134 Standards of performance for new sources.
- 421.135 Pretreatment standards for existing sources.
- 421.136 Pretreatment standards for new sources.
- 421.137 [Reserved]

Subpart N—Primary Antimony Subcategory

- 421.140 Applicability: Description of the pri-
- mary antimony subcategory. 421.141 Specialized definitions.
- 421.142 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.143 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.144 Standards of performance for new sources.
- 421.145 [Reserved]
- 421.146 Pretreatment standards for new sources.
- 421.147 [Reserved]

Subpart O—Primary Beryllium Subcategory

- 421.150 Applicability: Description of the primary beryllium subcategory.
- 421.151 Specialized definitions.
- 421.152 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.153 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.154 Standards of performance for new sources.
- 421.155 [Reserved]

421.156 Pretreatment standards for new sources.

421.157 [Reserved]

Subpart P—Primary and Secondary Germanium and Gallium Subcategory

- 421.180 Applicability: Description of the primary and secondary germanium and gallium subcategory.
- 421.181 Specialized definitions.
- 421.182 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.183 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.184 Standards of performance for new sources.
- 421.185 Pretreatment standards for existing sources.
- 421.186 Pretreatment standards for new sources.
- 421.187 [Reserved]

Subpart Q—Secondary Indium Subcategory

- 421.190 Applicability: Description of the secondary indium subcategory.
- 421.191 Specialized definitions.
- 421.192–421.193 [Reserved]
- 421.194 Standards of performance for new sources.
- 421.195 Pretreatment standards for existing sources.
- 421.196 Pretreatment standards for new sources.
- 421.197 [Reserved]

Subpart R—Secondary Mercury Subcategory

- 421.200 Applicability: Description of the secondary mercury subcategory.
- 421.201 Specialized definitions.
- 421.202-421.203 [Reserved]
- 421.204 Standards of performance for new sources.
- 421.205 [Reserved]
- 421.206 Pretreatment standards for new sources.
- 421.207 [Reserved]

Subpart S—Primary Molybdenum and Rhenium Subcategory

- 421.210 Applicability: Description of the primary molybdenum and rhenium subcategory.
- 421.211 Specialized definitions.
- 421.212 Effluent limitations guidelines representing the degree of effluent reduction

- attainable by the application of the best practicable control technology currently available.
- 421.213 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.214 Standards of performance for new sources.
- 421.215 [Reserved]
- 421.216 Pretreatment standards for new sources.
- 421.217 [Reserved]

Subpart T—Secondary Molybdenum and Vanadium Subcategory

- 421.220 Applicability: Description of the secondary molybdenum and vanadium subcategory.
- 421.221 Specialized definitions.
- 421.222 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.223 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.224 Standards of performance for new sources.
- 421.225 [Reserved]
- 421.226 Pretreatment standards for new sources.
- 421.227 [Reserved]

Subpart U—Primary Nickel and Cobalt Subcategory

- 421.230 Applicability: Description of the primary nickel and cobalt subcategory.
- 421.231 Specialized definitions.
- 421.232 Effuent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.233 Effuent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.234 Standards of performance for new sources.
- 421.235 [Reserved]
- 421.236 Pretreatment standards for new sources.
- 421.237 [Reserved]

Subpart V—Secondary Nickel Subcategory

- ${\tt 421.240} \quad Applicability: Description of the secondary nickel subcategory.$
- 421.241 Specialized definitions.

- 421.242-421.243 [Reserved]
- 421.244 Standards of performance for new sources.
- 421.245 Pretreatment standards for existing sources.
- 421.246 Pretreatment standards for new sources.
- 421.247 [Reserved]

Subpart W—Primary Precious Metals and Mercury Subcategory

- 421.250 Applicability: Description of the primary precious metals and mercury subcategory.
- 421.251 Specialized definitions.
- 421.252 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.253 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.254 Standards of performance for new sources.
- 421.255 [Reserved]
- 421.256 Pretreatment standards for new sources.
- 421.257 [Reserved]

Subpart X—Secondary Precious Metals Subcategory

- 421.260 Applicability: Description of the secondary precious metals subcategory.
- 421.261 Specialized definitions.
- 421.262 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.263 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.264 Standards of performance for new sources.
- 421.265 Pretreatment standards for existing sources.
- 421.266 Pretreatment standards for new sources.
- 421.267 [Reserved]

Subpart Y—Primary Rare Earth Metals Subcategory

- 421.270 Applicability: Description of the primary rare earth metals subcategory.
- 421.271 Specialized definitions.
- 421.272-421.273 [Reserved]
- 421.274 Standards of performance for new sources.

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- 421.275 Pretreatment standards for existing sources
- 421 276 Pretreatment standards for new sources.
- 421.277 [Reserved]

Subpart Z—Secondary Tantalum Subcategory

- 421.280 Applicability: Description of the secondary tantalum subcategory. 421.281 Specialized definitions.
- 421.282 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.283 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best technology available economically achievable.
- 421.284 Standards of performance for new sources.
- 421.285 [Reserved] 421.286 Pretreatment standards for new sources.
- 421.287 [Reserved]

Subpart AA—Secondary Tin Subcategory

- 421.290 Applicability: Description of the secondary tin subcategory
- 421.291 Specialized definitions
- 421.292 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.293 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.294 Standards of performance for new sources.
- 421.295 Pretreatment standards for existing sources.
- 421.296 Pretreatment standards for new sources
- 421.297 [Reserved]

Subpart AB—Primary and Secondary **Titanium Subcategory**

- 421.300 Applicability: Description of the primary and secondary titanium subcategory.
- Specialized definitions. 421.301
- 421.302 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.303 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best

- available technology economically achievable.
- 421.304 Standards of performance for new sources.
- 421.305 Pretreatment standards for existing sources
- 421.306 Pretreatment standards for new sources.
- 421.307 [Reserved]

Subpart AC—Secondary Tungsten and **Cobalt Subcategory**

- 421.310 Applicability: Description of the secondary tungsten and cobalt subcategory. 421.311 Specialized definitions.
- 421.312 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available
- 421.313 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable
- 421.314 Standards of performance for new sources.
- 421.315 Pretreatment standards for existing sources
- 421.316 Pretreatment standards for new sources.
- 421.317 [Reserved]

Subpart AD—Secondary Uranium Subcategory

- 421.320 Applicability: Description of the secondary uranium subcategory. 421.321 Specialized definitions.
- 421.322 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 421.323 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 421.324 Standards of performance for new sources.
- 421.325 [Reserved]
- 421.326 Pretreatment standards for new sources.
- 421.327 [Reserved]

Subpart AE—Primary Zirconium and **Hafnium Subcategory**

- 421.330 Applicability: Description of the primary zirconium and hafnium subcategory.
- 421.331 Specialized definitions.
- 421.332 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best

practicable control technology currently available.

421.333 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

421.334 Standards of performance for new sources.

421.335 [Reserved]

421.336 Pretreatment standards for new sources.

421.337 [Reserved]

AUTHORITY: Secs. 301, 304 (b), (c), (e), and (g), 306 (b) and (c), 307 (b) and (c), 308 and 501 of the Clean Water Act (the Federal Water Pollution Control Act Amendments of 1972, as amended by the Clean Water Act of 1977) and the Water Quality Act of 1987 (the "Act"); 33 U.S.C. 1311, 1314 (b), (c), (e), and (g), 1316 (b) and (c), 1317 (b) and (c), 1318 and 1361; 86 Stat. 816, Pub. L. 92–500; 91 Stat. 1567, Pub. L. 95–217; 101 Stat. 7, Pub. L. 100–4.

Source: 49 FR 8790, Mar. 8, 1984, unless otherwise noted.

GENERAL PROVISIONS

§ 421.1 Applicability.

This part applies to facilities producing primary metals from ore concentrates and recovering secondary metals from recycle wastes which discharge or may discharge pollutants to waters of the United States or which introduce or may introduce pollutants into a publicly owned treatment works. The applicability of this part to alloying or casting of nonferrous metals is limited to alloying or casting of hot metal directly from the nonferrous metals manufacturing process without cooling. Remelting followed by alloying or cooling is included in the aluminum forming, nonferrous metals forming, or metal molding and casting point source categories.

§421.2 [Reserved]

§ 421.3 Monitoring and reporting requirements.

The following special monitoring requirements apply to all facilities controlled by this regulation:

(a) The *monthly average* regulatory values shall be the basis for the monthly average discharge in direct discharge permits and for pretreatment standards. Compliance with the monthly discharge limit is required regard-

less of the number of samples analyzed and averaged.

- (b) Periodic analysis for cyanide are not required for a facility in the primary beryllium subcategory (subpart O of this part) when both of the following conditions are met:
- (1) The first wastewater sample taken in each calandar year has been analyzed and found to contain less than 0.07 mg/1 cyanide.
- (2) The owner or operator of the primary beryllium manufacturing facility certifies in writing to the POTW authority or permit issuing authority that cyanide is neither generated nor used in the beryllium manufacturing process employed at that facility.

[49 FR 8790, Mar. 8, 1984, as amended at 55 FR 31697, Aug. 3, 1990]

§ 421.4 Compliance date for pretreatment standards for existing sources (PSES).

The PSES compliance deadline in subparts A through M is March 8, 1987. The PSES compliance deadline for plants in subparts N through AE is September 20, 1988.

[50 FR 52776, Dec. 26, 1985]

§ 421.5 Removal allowances for pretreatment standards.

Removal allowances pursuant to 40 CFR 403.7(a) may be granted for the toxic metals limited in 40 CFR part 421 when used as indicator pollutants.

Subpart A—Bauxite Refining Subcategory

§ 421.10 Applicability; description of the bauxite refining subcategory.

The provisions of this subpart are applicable to discharges resulting from the refining of bauxite to alumina by the Bayer process or by the combination process.

[39 FR 12825, Apr. 8, 1974]

§ 421.11 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in part 401 of this chapter shall apply to this subpart.

(b) The term *bauxite* shall mean ore containing alumina monohydrate or alumina trihydrate which serves as the principal raw material for the production of alumina by the Bayer process or by the combination process.

(c) The term *product* shall mean alumina.

(d) For all impoundments the term within the impoundment for purposes of calculating the volume of process wastewater which may be discharged, shall mean the surface area within the impoundment at the maximum capacity plus the area of the inside and outside slopes of the impoundment dam and the surface area between the outside edge of the impoundment dam and seepage ditches upon which rain falls and is returned to the impoundment. For the purpose of such calculations, the surface area allowance for external appurtenances to the impoundment shall not be more than 30 percent of the water surface area within the impoundment dam at maximum capacity.

(e) The term *pond water surface area* for the purpose of calculating the volume of waste water shall mean the area within the impoundment for rainfall and the actual water surface area for evaporation.

[39 FR 12825, Apr. 8, 1974, as amended at 40 FR 48348, Oct. 15, 1975]

§ 421.12 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart, shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available:

(a) Subject to the provisions of paragraph (b) of this section, the following limitations establish the quantity or quality of pollutants or pollutant properties which may be discharged by a point source subject to the provisions of this subpart after application of the best practicable control technology currently available: There shall be no discharge of process waste water pollutants to navigable waters.

(b) During any calendar month there may be discharged from the overflow of a process waste water impoundment either a volume of process waste water equal to the difference between the precipitation for that month that falls within the impoundment and the evaporation within the impoundment for that month, or, if greater, a volume of process waste water equal to the difference between the mean precipitation for that month that falls within the impoundment and the mean evaporation for that month as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located (or as otherwise determined if no monthly data have been established by the National Climatic Center).

[39 FR 12825, Apr. 8, 1974, as amended at 50 FR 38342, Sept. 20, 1985]

§ 421.13 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subject to the provisions of paragraph (b) of this section, the following limitations establish the quantity or quality of pollutants or pollutant properties which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable: There shall be no discharge of process waste water pollutants to navigable waters.

(b) During any calendar month there may be discharged from the overflow of a process waste water impoundment either a volume of process waste water equal to the difference between the precipitation for that month that falls within the impoundment and the evaporation within the impoundment for that month, or, if greater, a volume of process waste water equal to the difference between the mean precipitation

for that month that falls within the impoundment and the mean evaporation for that month as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located (or as otherwise determined if no monthly data have been established by the National Climatic Center).

[39 FR 12825, Apr. 8, 1974, as amended at 50 FR 38342, Sept. 20, 1985]

§ 421.14 [Reserved]

§ 421.15 Standards of performance for new sources.

(a) Subject to the provisions of paragraph (b) of this section, the following standards of performance establish the quantity or quality of pollutants or pollutant properties which may be discharged by a new source subject to the provisions of this subpart: There shall be no discharge of process waste water pollutants to navigable waters.

(b) During any calendar month there may be discharged from the overflow of a process waste water impoundment either a volume of process waste water equal to the difference between the precipitation for that month that falls within the impoundment and the evaporation within the impoundment for that month, or, if greater, a volume of process waste water equal to the difference between the mean precipitation for that month that falls within the impoundment and the mean evaporation for that month as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located (or as otherwise determined if no monthly data have been established by the National Climatic Center).

[39 FR 12825, Apr. 8, 1974]

§ 421.16 Pretreatment standards for new sources.

Any new sources subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403.

[50 FR 38342, Sept. 20, 1985]

Subpart B—Primary Aluminum Smelting Subcategory

§ 421.20 Applicability: description of the primary aluminum smelting subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of aluminum from alumina in the Hall-Heroult process.

§ 421.21 Specialized definitions.

For the purpose of this subpart:

- (a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in part 401 of this chapter, shall apply to this subpart.
- (b) The term *product* shall mean hot aluminum metal.
- (c) If a permittee chooses to analyze for benzo(a)pyrene using any EPA-approved method, any "non-detected" measurements shall be considered zeroes for the purpose of determining compliance with this regulation.

[49 FR 8792, Mar. 8, 1984, as amended at 52 FR 25556, July 7, 1987]

§ 421.22 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available (BPT):

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Metric units—kg/kkg of product	
	English units—lbs/ thousand lbs of produc	
Fluoride	2.0	1.0
Total Suspended solids	3.0	1.5
pH	(1)	(1)

¹ Within the range of 6 to 9 at all times.

[49 FR 8792, Mar. 8, 1984; 49 FR 29794, July 24, 1984]

§ 421.23 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart B—Anode and Cathode Paste Plant Wet Air Pollution Control

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of paste produced	
Benzo(a)pyrene	0.005 .263 .075 .831	0.002 .117 .050 .369
Fluoride	8.092	3.591

(b) Subpart (B)—Anode Contact Cooling and Briquette Quenching.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of anodes cast	
Benzo(a)pyrene	0.007 .403 .115 1.277 12.440	0.003 .180 .077 .566 5.518

(c) Subpart (B)—Anode Bake Plant Wet Air Pollution Control (Closed Top Ring Furnace).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of anodes baked	
Benzo(a)pyrene	0.146 8.346	0.067 3.719
Nickel	2.378	1.600
Aluminum	26.420	11.720

BAT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Fluoride	257.300	114.200

(d) Subpart B—Anode Bake Plant Wet Air Pollution Control (Open Top Ring Furnace With Spray Tower Only).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of anodes baked	
Benzo(a)pyrene	0.002	0.001
Antimony	.097	.043
Nickel	.028	.019
Aluminum	.306	.136
Fluoride	2.975	1.320

(e) Subpart B—Anode Bake Plant Wet Air Pollution Control (Open Top Ring Furnace With Wet Electrostatic Precipitator and Spray Tower).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million nodes baked
Benzo(a)pyrene	0.025 1.409 .402 4.461 43.440	0.011 .628 .270 1.979 19.270

(f) Subpart B—Anode Bake Plant Wet Air Pollution Control (Tunnel Kiln).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of anodes baked	
Benzo(a)pyrene	0.038 2.197 .626 6.953 67.710	0.018 .979 .421 3.084 30.050

(g) Subpart B—Cathode Reprocessing (Operated With Dry Potline Scrubbing

and Not Commingled With Other Process or Nonprocess Waters).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cryolite re- covered	
Benzo(a)pyrene	1.181 420.400 157.600 80.570 273.200 29,430.000	0.547 189.200 70.060 35.030 122.600 13,310.000

(h) Subpart B—Cathode Reprocessing (Operated With Dry Potline Scrubbing and Commingled With Other Process or Nonprocess Waters).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cryolite re- covered	
Benzo(a)pyrene	1.181	0.547
Antimony	67.610	30.120
Cyanide	157.600	70.060
Nickel	19.270	12.960
Aluminum	214.000	94.930
Fluoride	2,084.000	924.800

(i) Subpart B—Cathode Reprocessing (Operated With Wet Potline Scrubbing).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millio pounds) of cryolite re covered	
Benzo(a)pyrene	.000 .000 .000 .000 .000	.000 .000 .000 .000

(j) Subpart B—Potline Wet Air Pollution Control (Operated Without Cathode Reprocessing).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminun produced from electro lytic reduction	
Benzo(a)pyrene	0.028	0.013
Antimony	1.618	.721
Nickel	.461	.310
Aluminum	5.120	2.271
Fluoride	49.860	22.130

(k) Subpart B—Potline Wet Air Pollution Control (Operated With Cathode Reprocessing and Not Commingled With Other Process or Nonprocess Waters).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millio pounds) of aluminur produced from electro lytic reduction	
Benzo(a)pyrene	0.028	0.013
Antimony	10.060	4.525
Cyanide	3.771	1.676
Nickel	1.928	.838
Aluminum	6.537	2.933
Fluoride	703.900	318.500

(l) Potline Wet Air Pollution Control Cooperated With Cathode Reprocessing and Commingled With Other Process or Nonprocess Wastewaters).

BAT EFFLUENT LIMITATIONS

Maximum for any 1 day	Maximum for monthly average
mg/kg (pound per millic pounds) of aluminu produced from electr lytic reduction	
0.028	0.013
1.618	.721
3.771	1.676
0.461	.310
5.120	2.271
49.860	22.130
	for any 1 day mg/kg (poun-pounds) or produced lytic reducti 0.028 1.618 3.771 0.461 5.120

(m) Subpart B—Potroom Wet Air Pollution Control.

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BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millio pounds) of aluminur produced from electro lytic reduction	
Benzo(a)pyrene	0.056	0.026
Antimony	3.204	1.428
Nickel	.913	.614
Aluminum	10.140	4.499
Fluoride	98.770	43.830

(n) Subpart B—Potline SO_2 Emissions Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millio pounds) of aluminur produced from electro lytic reduction	
Benzo(a)pyrene	0.045 2.588 .738 8.194 79.790	0.021 1.153 .496 3.634 35.400

(o) Subpart B—Degassing Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millic pounds) of aluminu produced from electro lytic reduction	
Benzo(a)pyrene	(1) 5.036 1.435 15.940 155.300	(1) 2.244 .965 7.071 68.880

¹There shall be no discharge allowance for this pollutant.

(p) Subpart B—Pot Repair and Pot Soaking.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millic pounds) of aluminu produced from electr lytic reduction	
Benzo(a)pyrene	.000	

BAT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Antimony	.000 .000 .000	.000 .000 .000

(q) Subpart B—Direct Chill Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millic pounds) of aluminu product from direct ch casting	
Benzo(a)pyrene	(1) 2.565 .731 8.120	(¹) 1.143 .492 3.602
Fluoride	79.080	35.090

¹There shall be no discharge allowance for this pollutant.

(r) Subpart B—Continuous Rod Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		d per million of aluminum m rod casting
Benzo(a)pyrene	(1) .201 .057 .636 6.188	(1) .089 .038 .282 2.746

¹ There shall be no discharge allowance for this pollutant.

(s) Subpart B—Stationary Casting or Shot Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millior pounds) of aluminum product from stationary casting or shot casting	
Benzo(a)pyrene	.000	
Antimony	.000	.000
Nickel	.000	.000
Aluminum	.000	.000
Fluoride	.000	.000

[49 FR 8792, Mar. 8, 1984, as amended at 52 FR 25556, July 7, 1987]

§ 421.24 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Subpart B—Anode and Cathode Paste Plant Wet Air.

POLLUTION CONTROL—NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of paste produced	
Benzo(a)pyrene	.000 .000 .000 .000 .000 .000 .000	

¹ Within the range of 7.0 to 10.0 at all times.

(b) Subpart B—Anode Contact Cooling and Briquette Quenching.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of anodes cast	
Benzo(a)pyrene Antimony Nickel Aluminum Fluoride Oil and grease	0.007 .403 .115 1.277 12.440 2.090	0.003 .180 .077 .566 5.518 2.090
Total suspended solidspH	3.135 (¹)	2.508 (¹)

¹ Within the range of 7.0 to 10.0 at all times.

(c) Subpart B—Anode Bake Plant Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of anodes baked	
Benzo(a)pyrene	.000 .000 .000 .000	.000 .000 .000

NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Oil and grease	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(d) Subpart B—Cathode Reprocessing (Operated With Dry Potline Scrubbing and Not Commingled With Other Process or Nonprocess Waters).

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds) of covered	
Benzo(a)pyrene	1.181	0.547
Antimony	420.400	189.200
Cyanide	157.600	70.060
Nickel	80.570	35.030
Aluminum	273.200	122.600
Fluoride	29,430.000	13,310.000
Oil and grease	350.300	350.300
Total suspended solids	2,172.000	945.800
pH	(1)	(¹)

¹ Within the range of 7.0 to 10.0 at all times.

(e) Subpart B—Cathode Reprocessing (Operated With Dry Potline Scrubbing and Commingled With Other Process or Nonprocess Waters).

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds) of covered	d per million f cryolite re-
Benzo(a)pyrene	1.181 67.610 157.600 19.270 214.000 2,084.000 350.300 2,172.000	0.547 30.120 70.060 12.960 94.930 924.800 350.300 945.800
pH	2,172.000	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(f) Subpart B—Potline Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminum produced from electro- lytic reduction	
Benzo(a)pyrene	.000	
Antimony	.000	.000
Nickel	.000	.000
Aluminum	.000	.000
Fluoride	.000	.000
Oil and grease	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(g) Subpart B—Potroom Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millior pounds) of aluminum produced from electro- lytic reduction	
Benzo(a)pyrene Antimony Nickel Aluminum Fluoride Oil and grease	.000 .000 .000 .000 .000	
Total suspended solidspH	.000	.000

¹ Within the range of 7.0 to 10.0 at all times.

(h) Subpart B—Potline SO_2 Emissions Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) al	d per million luminum pro- m electrolytic
Benzo(a)pyrene	0.045 2.588 .738	0.021 1.153 .496
Aluminum	8.194 79.790	3.634 35.400
Oil and grease Total suspended solids	13.410 20.120	13.410 16.090
pH	(¹)	(¹)

¹ Within the range of 7.0 to 10.0 at all times.

(i) Subpart B—Degassing Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millio pounds) of aluminur produced from electro lytic reduction	
Benzo(a)pyrene	.000	
Antimony	.000	.000
Nickel	.000	.000
Aluminum	.000	.000
Fluoride	.000	.000
Oil and grease	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(j) Subpart B—Pot Repair and Pot Soaking.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		of aluminum from electro-
Benzo(a)pyrene Antimony Nickel Aluminum Fluoride Oil and grease Total suspended solids pH	.000 .000 .000 .000 .000 .000 .000	

¹ Within the range of 7.0 to 10.0 at all times.

(k) Subpart B—Direct Chill Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per mill pounds) of alumin product from direct of casting	
Panza(a)nyrana	(1)	(1)
Benzo(a)pyrene	2.565	1.143
Nickel	.731	.492
Aluminum	8.120	3.602
Fluoride	79.080	35.090
Oil and grease	13.290	13.290
Total suspended solids	19.940	15.950
pH	(2)	(2)

¹There shall be no discharge allowance for this pollutant.
²The pH shall be maintained within the range of 7.0 to 10.0 at all times except for those situations when this waste is discharged separately and without commingling with any other waste-water in which case the pH shall be within the range of 6.0 to 10.0 at all times.

(l) Subpart B—Continuous Rod Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) (d per million of aluminum m rod casting
Benzo(a)pyrene Antimony Nickel Aluminum Fluoride Oil and grease Total suspended solids pH	(1) .201 .057 .636 6.188 1.040 1.560	(1) .089 .038 .282 2.746 1.040 1.248

¹There shall be no discharge allowance for this pollutant. ²Within the range of 7.0 to 10.0 at all times.

(m) Subpart B—Stationary Casting or Shot Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of aluminur product from stationar casting or shot casting	
Benzo(a)pyrene Antimony Nickel Aluminum Fluoride Oil and grease Total suspended solids pH	.000 .000 .000 .000 .000 .000 .000	

 $^{^{\}mbox{\tiny 1}}\mbox{Within the range of 7.0 to 10.0 at all times.}$

[49 FR 8792, Mar. 8, 1984; 49 FR 26739, June 29, 1984, as amended at 52 FR 25558, July 7, 1987]

§ 421.25 [Reserved]

§ 421.26 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary aluminum process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart B—Anode and Cathode Paste Plant Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of pa	ds per million aste produced
Benzo(a)pyrene Nickel Fluoride	.000 .000 .000	.000

(b) Subpart B—Anode Contact Cooling and Briquette Quenching.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of anodes cast	
Benzo(a)pyrene	0.007 .115 12.440	0.003 .077 5.518

(c) Subpart B—Anode Bake Plant Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million nodes baked
Benzo(a)pyrene	.000 .000 .000	.000

(d) Subpart B—Cathode Reprocessing (Operated With Dry Potline Scrubbing and Not Commingled With Other Process or Nonprocess Waters).

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cryolite re- covered	
Benzo(a)pyrene	1.181 157.600	0.547 70.060
NickelFluoride	80.570 29,430.000	35.030 13,310.000

(e) Subpart B—Cathode Reprocessing (Operated With Dry Potline Scrubbing and Commingled With Other Process or Nonprocess Waters).

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PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of cryolite re- covered	
Benzo(a)pyrene	1.181 157.600 19.270 2,084.000	0.547 70.060 12.960 924.800

(f) Subpart B—Potline Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum produced from electro- lytic reduction	
Benzo(a)pyrene	.000 .000 .000	.000

(g) Subpart B—Potroom Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of aluminum produced from electro- lytic reduction	
Benzo(a)pyrene	.000 .000 .000	.000

(h) Subpart B—Potline SO_2 Emissions Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of aluminur produced from electro lytic reduction	
Benzo(a)pyrene	0.045 .738 79.790	0.021 .496 35.400

(i) Subpart B—Degassing Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum produced from electrolytic reduction	
Benzo(a)pyrene Nickel Fluoride	.000 .000 .000	

(j) Subpart B—Pot Repair and Pot Soaking.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminut produced from electricallytic reduction	
Benzo(a)pyrene Nickel Fluoride	.000 .000 .000	.000

(k) Subpart B—Direct Chill Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of aluminur product from direct chi casting	
Benzo(a)pyrene	(¹) .731 79.080	(1) .492 35.090

¹ There shall be no discharge allowance for this pollutant.

(l) Subpart B—Continuous Rod Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminun product from rod casting	
Benzo(a)pyrene Nickel Fluoride	(¹) .057 6.188	(¹) .038 2.746

¹There shall be no discharge allowance for this pollutant.

(m) Subpart B—Stationary Casting or Shot Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per million pounds) of aluminum product from stationary casting or shot casting	
Benzo(a)pyrene Nickel Fluoride	.000 .000 .000	.000

[49 FR 8792, Mar. 8, 1984; 49 FR 26739, June 29, 1984, as amended at 52 FR 25559, July 7, 1987]

§ 421.27 [Reserved]

Subpart C—Secondary Aluminum Smelting Subcategory

SOURCE: 49 FR 8796, Mar. 8, 1984, unless otherwise noted.

§ 421.30 Applicability: Description of the secondary aluminum smelting subcategory.

The provisions of this subpart are applicable to discharges resulting from the recovery, processing, and remelting of aluminum scrap to produce metallic aluminum alloys.

§421.31 Specialized definitions.

For the purpose of this subpart:

- (a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in part 401 of this chapter shall apply to this subpart.
- (b) The term *product* shall mean hot aluminum metal.
- (c) *At-the-source* means at or before the commingling of delacquering scrubber liquor blowdown with other process or nonprocess wastewaters.

§ 421.32 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the appli-

cation of the best practicable technology currently available:

- (a) The following limitations establish the quantity or quality of pollutants or pollutant properties, which may be discharged by a point source subject to the provisions of this subpart and which uses water for metal cooling, after application of the best practicable control technology currently available: There shall be no discharge of process wastewater pollutants to navigable waters.
- (b) The following limitations establish the quantity or quality of pollutants or pollutant properties which may be discharged by a point source subject to the provisions of this subpart and which uses aluminum fluoride in its magnesium removal process ("demagging process"), after application of the best practicable control technology currently available: There shall be no discharge of process wastewater pollutants to navigable waters.
- (c) The following limitations establish the quantity or quality of pollutants or pollutant properties controlled by this section, which may be discharged by a point source subject to the provisions of this subpart and which uses chlorine in its magnesium removal process, after application of the best practicable control technology currently available:

EFFLUENT LIMITATIONS

Effluent characteristic	Average of daily values for 30 consecutive days shall not exceed—
	Metric units (kilograms per 1,000 kg magnesium removed)
TSS	175 6.5
COD	0.5
рн	(1)

¹Within the range of 7.5 to 9.0.

(d) The following limitations establish the quantity or quality of pollutants or pollutant properties which may be discharged by a point source subject to the provisions of this subpart and which processes residues by wet methods, after application of the best practical control technology currently available:

EFFLUENT LIMITATIONS

Effluent characteristic	Average of daily values for 30 consecutive days shall not exceed—	
	Metric units (kilograms per 1,000 kg of product)	
TSS Fluoride Ammonia (as N) Aluminum Copper COD PH	1.5 0.4 0.01 1.0 0.003 1.0	

¹ Within the range of 7.5 to 9.0.

§ 421.33 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart C—Scrap Drying Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound's per million pounds) of aluminun scrap dried	
Lead	.000	.000
Zinc	.000	.000
Aluminum	.000	.000
Ammonia (as N)	.000	.000

(b) Subpart C—Scrap Screening and Milling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound's per million pounds) of aluminum scrap screened and milled	
LeadZincAluminumAmmonia (as N)	.000 .000 .000 .000	.000 .000 .000

(c) Subpart C-Dross Washing.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound's per millior pounds) of dross washed	
Lead Zinc	3.043 11.090 66.410 1,449.000	1.413 4.565 29.450 636.900

(d) Subpart C—Demagging Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (lb/million lbs) of aluminum demagged	
Lead Zinc	0.216 0.786 4.711 102.800	0.100 0.324 2.090 45.180

(e) Subpart C—Delacquering Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound's per millio pounds) of aluminum delacquered	
Lead	0.093 0.340	0.043 0.140
Aluminum	2.035	0.903
Ammonia (as N)	44.389	19.514
Total phenolics (4-AAP meth-		
od) ¹	0.004	

¹ At the source.

(f) Subpart C—Direct Chill Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
Lead Zinc	.372 1.356 8.120 177.200	.173 .558 3.602 77.880

(g) Subpart C—Ingot Conveyor Casting Contact Cooling (When Chlorine

Demagging Wet Air Pollution Control is Not Practiced On-Site).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (lb/million lbs) of aluminum cast	
Lead	0.019	0.009
Zinc	0.068	0.028
Aluminum	0.409	0.182
Ammonia (as N)	8.931	3.926

(h) Subpart C—Ingot Conveyor Casting Contact Cooling (When Chloride Demagging Wet Air Pollution Control is Practiced On Site).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
Lead Zinc	.000 .000 .000 .000	.000 .000 .000

(i) Subpart C—Stationary Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
LeadZinc	.000 .000 .000	.000 .000 .000

(j) Subpart C—Shot Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
Lead	.000 .000 .000	.000 .000 .000

[49 FR 8796, Mar. 8, 1984; 49 FR 26739, June 29, 1984, as amended at 49 FR 29794, July 24, 1984; 52 FR 25559, July 7, 1987]

§421.34 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Subpart C—Scrap Drying Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average.
	mg/kg (pounds per million pounds) of aluminuscrap dried	
Lead Zinc Aluminum Ammonia (as N)	.000 .000 .000	.000 .000 .000
Total suspended solids Oil and greasepH	.000 .000 (¹)	.000 .000 (¹)

¹ Within the range of 7.0 to 10.0 at all times

(b) Subpart C—Scrap Screening and Milling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per milli pounds) of aluminu scrap screened a milled	
Lead	.000	.000
Zinc	.000	.000
Aluminum	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000
Oil and grease	.000	.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(c) Subpart C—Dross Washing.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of dross washed	
Lead	.000 .000 .000 .000	.000 .000 .000 .000
Oil and grease		.000

NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(d) Subpart C—Demagging Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (lb/million lbs) of aluminum demagged	
Lead	0.216 0.786 4.711 102.800 11.570 7.710 (¹)	0.100 0.324 2.090 45.180 9.252 7.710

¹ Within the range of 7.0 to 10.0 at all times.

(e) Subpart C—Delacquering Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of aluminum
Lead	0.093 0.340 2.035 44.389	0.043 0.140 0.903 19.514
Total phenolics (4–AAP method) 1	0.004 4.995 3.330 (²)	3.996 3.330 (²)

(f) Subpart C-Direct Chill Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
Lead	.372 1.356 8.120 177.200 19.940 13.290	.173 .558 3.602 77.880 15.950 13.290

NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(g) Subpart C-Ingot Conveyor Casting Contact Cooling (When Chlorine Demagging Wet Air Pollution Control is Not Practiced On-Site).

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (lb/million lbs) of aluminum cast	
Lead Zinc	0.019 0.068 0.409 8.931 1.005 0.670	0.009 0.028 0.182 3.926 0.804 0.670

¹ Within the range of 7.0 to 10.0 at all times.

(h) Subpart C-Ingot Conveyor Casting Contact Cooling (When Chlorine Demagging Wet Air Pollution Control is Practiced On Site).

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million luminum cast
Lead	.000 .000 .000 .000 .000 .000	.000 .000 .000 .000 .000 .000

¹Within the range of 7.0 to 10.0 at all times.

(i) Subpart C-Stationary Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
LeadZinc	.000	.000
Aluminum	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000

¹ At the source. ² Within the range of 7.0 to 10.0 at all times.

NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Oil and greasepH	.000 (¹)	.000 (¹)

¹Within the range of 7.0 to 10.0 at all times.

(j) Subpart C—Shot Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
Lead	.000 .000 .000 .000	.000 .000 .000 .000
Oil and greasepH	.000 (¹)	.000 (¹)

¹ Within the range of 7.0 to 10.0 at all times.

[49 FR 8796, Mar. 8, 1984, as amended at 49 FR 29794, July 24, 1984; 52 FR 25559, July 7, 1987]

§ 421.35 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in secondary aluminum process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart C—Scrap Drying Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of aluminum scrap dried	
Lead	.000 .000 .000	.000 .000 .000

(b) Subpart C—Scrap Screening and Milling.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of aluminum scrap screened and milled	
Lead	.000	.000
Ammonia (as N)	.000	.000

(c) Subpart C—Dross Washing.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of dross washed	
Lead Zinc Ammonia (as N)	3.043 11.090 1,449.000	1.413 4.565 636.000

(d) Subpart C—Demagging Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (lb/million lbs) of aluminum demagged	
Lead Zinc	0.216 0.786 102.800	0.100 0.324 45.180

(e) Subpart C—Delacquering Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of aluminur delacquered	
Lead	0.093	0.043
Zinc	0.340	0.140
Ammonia (as N)	44.389	19.514
Total phenolics (4-AAP) meth-		

¹ At the source.

(f) Subpart C—Direct Chill Casting Contact Cooling.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
Lead Zinc Ammonia (as N)	.372 1.356 177.200	.173 .558 77.800

(g) Subpart C—Ingot Conveyor Casting Contact Cooling (When Chlorine Demagging Wet Air Pollution Control is Not Practiced On-Site).

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (lb/million lbs) of aluminum cast	
Lead	0.019 0.068	0.009
Amomonia (as N)	8.931	3.926

(h) Subpart C—Ingot Conveyor Casting Contact Cooling. (When Chlorine Demagging Wet Air Pollution Control is Practiced On Site.)

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
Lead	.000 .000 .000	.000 .000 .000

(i) Subpart C—Stationary Casting Contact Cooling.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of aluminum cas	
Lead	.000 .000	.000.
Ammonia (as N)	.000	.000

(j) Subpart C—Shot Casting Contact Cooling.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of aluminum cas	
Lead Zinc Ammonia (as N)	.000 .000 .000	.000 .000 .000

[49 FR 8796, Mar. 8, 1984, as amended at 49 FR 29794, July 24, 1984; 52 FR 25560, July 7, 1987]

§ 421.36 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants introduced in secondary aluminum process wastewater into a POTW shall not exceed the following values:

(a) Subpart C—Scrap Drying Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of aluminu scrap dried	
Lead Zinc Ammonia (as N)	.000 .000 .000	.000 .000

(b) Subpart C—Scrap Screening and Milling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of aluminur scrap screened an milled	
Lead	.000 .000 .000	.000 .000 .000

(c) Subpart C—Dross Washing.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of dross washed	
Lead Zinc	.000 .000 .000	.000 .000 .000

(d) Subpart C—Demagging Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (lb/million lbs) of aluminum demagged	
Lead	0.216 0.786 102.800	0.100 0.324 45.180

(e) Subpart C—Delacquering Wet Air Pollution Control

PSNS

Zinc 0.340 0.140 Ammonia (as N) 44.389 19.514 Total phenolics (4–AAP method) 1 0.004			
Lead	Pollutant or pollutant property	for any 1	for monthly
Zinc 0.340 0.140 Ammonia (as N) 44.389 19.514 Total phenolics (4–AAP method) 1 0.004		pounds) of aluminum	
	Zinc	0.340 44.389	0.043 0.140 19.514
	od) 1	0.004	L

¹ At the source.

(f) Subpart C—Direct Chill Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
LeadZincAmmonia (as N)	.372 1.356 177.200	.173 .558 77.880

⁽g) Subpart C—Ingot Conveyor Casting Control Cooling (When Chlorine Demagging Wet Air Pollution Control is Not Practiced On-Site).

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (lb/million lbs) of aluminum cast	
Lead Zinc Amomonia (as N)	0.019 0.068 8.931	0.009 0.028 3.926

(h) Subpart C—Ingot Conveyor Casting Contact Cooling (When Chlorine Demagging Wet Air Pollution Control Is Practiced on Site).

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
Lead Zinc Ammonia (as N)	.000 .000 .000	.000 .000 .000

(i) Subpart C—Stationary Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
Lead	.000 .000 .000	.000 .000 .000

(j) Subpart C—Shot Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of aluminum cast	
Lead Zinc Ammonia (as N)	.000 .000 .000	.000 .000 .000

[49 FR 8796, Mar. 8, 1984, as amended at 49 FR 29794, July 24, 1984; 52 FR 25560, July 7, 1987]

§421.37 [Reserved]

Subpart D—Primary Copper Smelting Subcategory

SOURCE: 49 FR 8800, Mar. 8, 1984, unless otherwise noted.

§ 421.40 Applicability: Description of the primary copper smelting subcategory.

The provisions of this subpart apply to process wastewater discharges resulting from the primary smelting of copper from ore or ore concentrates. Primary copper smelting includes, but is not limited to, roasting, converting, leaching if preceded by a pyrometallurgical step, slag granulation and dumping, fire refining, and the casting of products from these operations.

§ 421.41 Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 apply to this subpart.

- (b) In the event that the waste streams covered by this subpart are combined for treatment or discharge with waste streams covered by Subparts E—Primary Electrolytic Copper Refining and/or Subpart I—Metallurgical Acid Plants, the quantity of each pollutant or pollutant property discharged shall not exceed the quantity of each pollutant or pollutant property which could be discharged if each waste stream were discharged separately.
- (c) For all impoundments constructed prior to the effective date of the interim final regulation (40 FR 8513), the term "within the impoundment," when used to calculate the vol-ume of process wastewater which may be discharged, means the water surface area within the impoundment at maximum capacity plus the surface area of the inside and outside slopes of the impoundment dam as well as the surface area between the outside edge of the impoundment dam and any seepage ditch adjacent to the dam upon which rain falls and is returned to the impoundment. For the purpose of such calculations, the surface area allowances set forth above shall not exceed

more than 30 percent of the water surface area within the impoundment dam at maximum capacity.

(d) For all impoundments constructed on or after the effective date of the interim final regulation (the interim regulation was effective February 27, 1975; 40 FR 8513, February 27, 1975), the term "within the impoundment," for purposes of calculating the volume of process wastewater which may be discharged, means the water surface area within the impoundment at maximum capacity.

§ 421.42 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

- (a) Except as provided in 40 CFR 125.30 through 125.32 and paragraph (b) of this section, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT): There shall be no discharge of process wastewater pollutants to navigable waters.
- (b) A process wastewater impoundment which is designed, constructed, and operated so as to contain the precipitation from the 10-year, 24-hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located may discharge that volume of process wastewater which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 10-year, 24-hour rainfall event, when such event occurs.

§ 421.43 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall

achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

- (a) Subject to the provisions of paragraph (b) of this section, there shall be no discharge of process wastewater pollutants into navigable waters.
- (b) A process wastewater impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25-year, 24-hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located may discharge that volume of process wastewater which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25-year, 24-hour rainfall event, when such event occurs.

[49 FR 8800, Mar. 8, 1984; 49 FR 26739, June 29, 1984]

§ 421.44 Standards of performance for

Any new source subject to this subpart shall achieve the following new source performance standards: There shall be discharge of process wastewater pollutants into navigable waters.

§421.45 [Reserved]

§ 421.46 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary copper smelting process wastewater introduced into a POTW shall not exceed the following values: There shall be no discharge of process wastewater pollutants into a publicly owned treatment works.

§ 421.47 [Reserved]

Subpart E—Primary Electrolytic Copper Refining Subcategory

SOURCE: 49 FR 8801, Mar. 8, 1984, unless otherwise noted.

§ 421.50 Applicability: Description of the primary electrolytic copper refining subcategory.

The provisions of this subpart apply to process wastewater discharges resulting from the electrolytic refining of primary copper, including, but not limited to, anode casting performed at refineries which are not located on-site with a smelter, product casting, and by-product recovery.

§ 421.51 Specialized definitions.

For the purpose of this subpart:

- (a) Except as provided below, the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 apply to this subpart.
- (b) The term *product* means electrolytically refined copper.

§ 421.52 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

FFFI UENT LIMITATIONS

Effluent characteristic	Maximum for any 1 day	Average of Daily values for 30 con- secutive days shall not exceed
	(Metric units, kg/kkg of prod uct; English units, pounds per 1,000 lb of product)	
Total suspended solids Copper Cadmium	0.100 0.0017 0.00006 0.0006	0.050 0.0008 0.00003 0.0026

EFFLUENT LIMITATIONS—Continued

Effluent characteristic	Maximum for any 1 day	Average of Daily values for 30 con- secutive days shall not exceed
ZincpH	0.0012 (¹)	0.0003 (¹)

¹ Within the range of 6.0 to 9.0.

§ 421.53 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart E—Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of copper cast	
Arsenic	.692 .638 .274	.309 .304 .184

(b) Subpart E—Anode and Cathode Rinse.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode cop- per production	
Arsenic	.000	.000
Copper	.000	.000
Nickel	.000	.000

(c) Subpart E-Spent Electrolyte.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of copper cath- ode production	
Arsenic	.068 .063 .027	.031 .030 .018

(d) Subpart E—Casting Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of casting pro- duction	
Arsenic	.000 .000 .000	.000 .000

(e) Subpart E-By-Product Recovery.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of product re- covered from electrolytic slimes processing	
Arsenic	.000 .000 .000	.000. 000.

[49 FR 8801, Mar. 8, 1984; 49 FR 26739, June 29, 1984, as amended at 49 FR 29795, July 24, 1984]

§ 421.54 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Subpart E—Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of copper cast	
Arsenic	692	309

NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Copper	.638	.304
Nickel	.274	.184
Total suspended solids	7.470	5.976
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Subpart E—Anode and Cathode Rinse.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of cathode cop- per production	
Arsenic Copper	.000 .000	.000
Nickel	.000	.000
Total suspended solids	.000	.000
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Subpart E-Spent Electrolyte.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of copper cath- ode production	
Arsenic	.068 .063 .027 .735 (¹)	.031 .030 .018 .588 (¹)

¹ Within the range 7.5 to 10.0 at all times.

(d) Subpart E—Casting Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of casting pro duction	
Arsenic	.000 .000 .000 .000	.000 .000 .000 .000 (1)

¹Within the range of 7.5 to 10.0 at all times.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of product re- covered from electrolytic slimes processing	
Arsenic	.000	.000
Nickel	.000	.000
Total suspended solids	.000	.000
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

 $[49\ FR\ 8801,\ Mar.\ 8,\ 1984,\ as\ amended\ at\ 49\ FR\ 29795,\ July\ 24,\ 1984]$

§ 421.55 [Reserved]

§421.56 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary electrolytic copper refining process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart E—Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of copper cast	
Arsenic	.692 .638 .274	.309 .304 .184

(b) Subpart E—Anode and Cathode Rinse.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode cop- per production	
Arsenic	.000 .000 .000	.000 .000 .000

⁽e) Subpart E—By-Product Recovery.

(c) Subpart E-Spent Electrolyte.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode copper production	
Arsenic	.068 .063 .027	.031 .030 .018

(d) Subpart E—Casting Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of casting pro- duction	
Arsenic	.000 .000 .000	.000 .000 .000

(e) Subpart E-By-Product Recovery.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of product re- covered from electrolytic slimes processing	
Arsenic	.000 .000 .000	.000 .000 .000

[49 FR 8801, Mar. 8, 1984, as amended at 49 FR 29795, July 24, 1984]

§ 421.57 [Reserved]

Subpart F—Secondary Copper Subcategory

SOURCE: 49 FR 8802, Mar. 8, 1984, unless otherwise noted.

§ 421.60 Applicability: Description of the secondary copper subcategory.

The provisions of this subpart are applicable to discharges resulting from the recovery, processing, and remelting

of new and used copper scrap and residues to produce copper metal and copper alloys, but are not applicable to continuous rod casting.

§ 421.61 Specialized definitions.

For the purpose of this subpart:

- (a) Except as provided below, the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.
- (b) For all impoundments constructed prior to the effective date of this regulation the term "within the impoundment" when used for purposes of calculating the volume of process wastewater which may be discharged shall mean the water surface area within the impoundment at maximum capacity plus the surface area of the inside and outside slopes of the impoundment dam as well as the surface area between the outside edge of the impoundment dam and any seepage ditch immediately adjacent to the dam upon which rain falls and is returned to the impoundment. For the purpose of such calculations, the surface area allowances set forth above shall not be more than 30 percent of the water surface area within the impoundment dam at maximum capacity.
- (c) For all impoundments constructed on or after the effective date of this regulation, the term "within the impoundment" for purposes of calculating the volume of process wastewater which may be discharged shall mean the water surface area within the impoundment at maximum capacity.
- (d) The term *pond water surface area* when used for the purpose of calculating the volume of wastewater which may be discharged shall mean the water surface area of the pond created by the impoundment for storage of process wastewater at normal operating level. This surface shall in no case be less than one-third of the surface area of the maximum amount of water which could be contained by the impoundment. The normal operating level shall be the average level of the pond during the preceding calendar month.

§ 421.62 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

- (a) Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available: Subject to the provisions of paragraphs (b), (c), and (d) of this section, there shall be no discharge of process wastewater pollutants into navigable waters.
- (b) A process wastewater impoundment which is designed, constructed, and operated so as to contain the precipitation from the 10-year, 24-hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration for the areas in which such impoundment is located may discharge that volume of process wastewater which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 10-year, 24-hour rainfall event, when such event occurs.
- (c) During any calendar month there may be discharged from a process wastewater impoundment either a volume of process wastewater equal to the difference between the precipitation for the month that falls within the impoundment and either the evaporation from the pond water surface area for that month, or a volume of process wastewater equal to the difference between the mean precipitation for that month that falls within the impoundment and the mean evaporation from the pond water surface area as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located (or as otherwise determined if no monthly data have been established by the National Climatic Center), whichever is greater.
- (d) Any process wastewater discharged pursuant to paragraph (c) of this section shall comply with each of the following requirements:

	Effluent characteristic	
Effluent limitations	Maximum for any 1 day	Average of daily values for 30 con- secutive days shall not exceed
	Metric Units (mg/l) English Units (ppm)	
TSS	50	25
	0.5	0.25
Zn	10	5
Oil and grease	20	10
pH	(1)	(1)

¹ Within the range of 6.0 to 9.0

[49 FR 8802, Mar. 8, 1984; 49 FR 26739, June 29, 1984]

§ 421.63 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

- (a) Subject to the provisions of paragraph (b) of this section, there shall be no discharge of process wastewater pollutants into navigable waters.
- (b) a process wastewater impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25-year, 24-hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located may discharge that volume of process wastewater which is equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25-year, 24-hour rainfall event, when such event occurs.

§ 421.64 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards: There shall be no discharge of process wastewater pollutants into navigable waters.

§ 421.65 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in secondary copper process wastewater introduced into a POTW shall not exceed the following values:

- (a) There shall be no discharge of process wastewater pollutants into a publicly owned treatment works subject to the provisions of paragraph (b) of this section.
- (b) A process wastewater impoundment which is designed, constructed, and operated so as to contain the precipitation from the 25-year, 24-hour rainfall event as established by the National Climatic Center, National Oceanic and Atmospheric Administration, for the area in which such impoundment is located may discharge that volume of process wastewater equivalent to the volume of precipitation that falls within the impoundment in excess of that attributable to the 25-year, 24-hour rainfall event, when such event occurs.

§ 421.66 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7 any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary copper process wastewater introduced into a POTW shall not exceed the following values: There shall be no discharge of process wastewater pollutants into a publicly owned treatment works.

§421.67 [Reserved]

Subpart G—Primary Lead Subcategory

SOURCE: 49 FR 8803, Mar. 8, 1984, unless otherwise noted.

§ 421.70 Applicability: Description of the primary lead subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of lead at primary lead smelters and refineries.

§ 421.71 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.72 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available:

(a) Subpart G—Sinter Plant Materials Handling Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of sinter production	
LeadZinc	594.000 525.000	270.000 219.600
Total suspended solids	14.760.000	7.020.000
pH	(1)	(1)

¹Within the range of 7.5 to 10.0 at all times

(b) Subpart G—Blast Furnace Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billior pounds) of blast furance lead bullion produced	
Lead Zinc Total suspended solids pH	.000 .000 .000 (1)	.000 .000 .000 (¹)

¹Within the range of 7.5 to 10.0 at all times.

(c) Subpart G—Blast Furnace Slag Granulation.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billior pounds) of blast furance lead bullion produced	
Lead Zinc Total suspended solidspH	6,155.000 5,446.000 153,000.000 (1)	2,798.000 2,276.000 72,740.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Subpart G—Dross Reverberatory Slag Granulation.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of slag, speiss, or matte granulated	
LeadZinc	9,499.000 8,405.000 236,000.000 (1)	4,318.000 3,512.000 112,300.000 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Subpart G—Dross Reverberatory Furnace Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billio pounds) of dross revel beratory furnace production	
Lead Zinc Total suspended solidspH	15,920.000 14,080.000 395,500.000 (1)	7,235.000 5,884.000 188,100.000 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Subpart G—Zinc Fuming Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of blast furance lead bullion produced	
Lead	702.900	319.500

BPT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Zinc Total suspended solids	622.000 17,470.000	259.900 8,307.000
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Subpart G—Hard Lead Refining Slag Granulation.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billio pounds) of hard lea produced	
Lead	.000	.000
Zinc	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Subpart G—Hard Lead Refining Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1	Maximum for monthly
,, ., ., .,	day	average
	mg/kkg (pounds per billi pounds) of hard le produced	
Lead	32,730.000	14,880.000
Zinc	28,960.000	12,100.000
Total suspended solids	813,300.000	386,800.000
pH	(¹)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Subpart G—Facility Washdown.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pour pounds) of produced	nds per billion lead bullion
Lead	.000	.000
Zinc	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Subpart G-Employee Handwash.

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BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billic pounds) of lead bullic produced	
Lead	5.445	2.475
Zinc	4.818	2.013
Total suspended solids	135.300	64.350
pH	(¹)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Subpart G-Respirator Wash.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billior pounds) of lead bullior produced	
Lead Zinc Total suspended solidspH	8.745 7.738 217.300 (¹)	3.975 3.233 103.400 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(l) Subpart G—Laundering of Uniforms.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of lead bullion produced	
Lead Zinc Total suspended solids pH	25.580 22.630 635.500 (¹)	11.630 9.455 302.300 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

[49 FR 8803, Mar. 8, 1984; 49 FR 26739, June 29, 1984, as amended at 49 FR 29795, July 24, 1984]

§ 421.73 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart G—Sinter Plant Materials Handling Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billio pounds) of sinter produc tion	
LeadZinc	100.800 367.200	46.800 151.200

(b) Subpart G—Blast Furnace Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billic pounds) of blast furnac lead bullion produced	
LeadZinc	.000 .000	.000

(c) Subpart G—Blast Furnace Slag Granulation.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billio pounds) of blast furnac lead bullion produced	
LeadZinc	.000 .000	.000 .000

(d) Subpart G—Dross Reverberatory Slag Granulation.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billic pounds) of slag, speis or matte granulated	
Lead Zinc	1,612.000 5,872.000	748.400 2,418.000

(e) Subpart G—Dross Reverberatory Furnace Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of dross rever- beratory furnace produc- tion	
Lead Zinc	.000 .000	.000 .000

(f) Subpart G—Zinc Fuming Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of blast furnance lead bullion produced	
Lead	.000 .000	.000 .000

(g) Subpart G—Hard Lead Refining Slag Granulation.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billi pounds) of hard le produced	
LeadZinc	.000 .000	.000 .000

(h) Subpart G—Hard Lead Refining Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billic pounds) of hard lea produced	
Lead	.000 .000	.000 .000

(i) Subpart G-Facility Washdown.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billio pounds) of lead bullio produced	
LeadZinc	.000 .000	.000

(j) Subpart G-Employee Handwash.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nds per billion lead bullion
LeadZinc	.924 3.366	.429 1.386

(k) Subpart G-Respirator Wash.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billio pounds) of lead bullio produced	
LeadZinc	1.484 5.406	.689 2.226

(l) Subpart G—Laundering of Uniforms.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of lead bullion produce	
LeadZinc	4.340 15.810	2.015 6.510

§ 421.74 Standards of performance for new sources.

Any new source subject to this subpart must achieve the following performance standards:

(a) Subpart G—Sinter Plant Materials Handling Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billio pounds) of sinter produc tion	
Lead	.000	.000
Zinc	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹Within the range of 7.5 to 10.0 at all times.

(b) Subpart G—Blast Furnace Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of blast furnace lead bullion produced	
LeadZinc	.000	.000
Total suspended solidspH	.000 (¹)	.000 (1)

¹Within the range of 7.5 to 10.0 at all times.

$\begin{tabular}{ll} (c) & Subpart & G-Blast & Furnace & Slag \\ & Granulation. \end{tabular}$

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pour pounds) furnance produced	
Lead Zinc Total suspended solidspH	.000 .000 .000 (¹)	.000 .000 .000 (¹)

¹Within the range of 7.5 to 10.0 at all times.

(d) Subpart G—Dross Reverberatory Slag Granulation.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of slag, speiss, or matte granulated	
Lead	.000	.000
Total suspended solids	.000	.000

NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
pH	(1)	(1)

¹Within the range of 7.5 to 10.0 at all times.

(e) Subpart G—Dross Reverberatory Furnace Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	nds per billion dross rever- rnace produc-
Lead	.000	.000
Total suspended solidspH	.000	.000

¹Within the range of 7.5 to 10.0 at all times.

(f) Subpart G—Zinc Fuming Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of blast furnace lead bullion produced	
Lead Zinc Total suspended solids pH	.000 .000 .000 (1)	.000 .000 .000 (1)

¹Within the range of 7.5 to 10.0 at all times.

(g) Subpart G—Hard Lead Refining Slag Granulation.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pour pounds) o produced	nds per billion f hard lead
Lead	.000	.000
Zinc	.000	.000
Total suspended solids	.000	.000
pH	(¹)	(1)

 $^{1}\mbox{Within}$ the range of 7.5 to 10.0 at all times.

(h) Subpart G—Hard Lead Refining Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of hard lead produced	
Lead Zinc Total suspended solidspH	.000 .000 .000 (1)	.000 .000 .000 (¹)

¹Within the range of 7.5 to 10.0 at all times.

(i) Subpart G—Facility Washdown.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pour pounds) of produced	nds per billion lead bullion
LeadZinc	.000 .000 .000 (1)	.000 .000 .000 (1)

Within the range of 7.5 to 10.0 at all times.

(j) Subpart G—Employee Handwash.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per billion lead bullion
Lead	.924 3.366	.429 1.386
Total suspended solids	49.500	39.600
pH	(1)	(1)

Within the range of 7.5 to 10.0 at all times.

(k) Subpart G—Respirator Wash.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pour pounds) of produced	nds per billion lead bullion
Lead Zinc Total suspended solids pH	1.484 5.406 79.500 (1)	.689 2.226 63.600 (1)

Within the range of 7.5 to 10.0 at all times.

(l) Subpart G—Laundering of Uniforms.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of lead bullion produced	
Lead	4.340	2.015
Zinc	15.810	6.510
Total suspended solids	232.500	186.000
pH	(¹)	(¹)

Within the range of 7.5 to 10.0 at all times.

 $[49\; FR\; 8803,\; Mar.\; 8,\; 1984,\; as\; amended\; at\; 49\; FR\; 29795,\; July\; 24,\; 1984]$

\$421.75 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works mut comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in primary lead process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart G—Sinter Plant Materials Handling Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nds per billion sinter produc-
LeadZinc	100.800 367.200	46.800 151.200

(b) Subpart G—Blast Furnace Wet Air Pollution Control.

PSES

Pollutant or polluntant property	Maximum for any 1 day	Maximum for monthly average
	pounds)	nd per billion of blast lead bullion
LeadZinc	.000 .000	.000

(c) Subpart G—Blast Furnace Slag Granulation.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pound per billion pounds) of blast furance lead bullion produced	
LeadZinc	.000	.000

(d) Subpart G—Dross Reverberatory Slag Granulation.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of slag, speiss, or matte granulated	
LeadZinc	1,612.000 5,872.000	748.400 2,418.000

(e) Subpart G—Dross Reverberatory Furnance Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of dross rever- beratory furnace produc- tion	
Lead	.000	.000
Zinc	.000	.000

(f) Subpart G—Zinc Fuming Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of blast furnace lead bullion produced	
LeadZinc	.000 .000	.000

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(g) Subpart G—Hard Lead Refining Slag Granulation.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nds per billion f hard lead
LeadZinc	.000	.000

(h) Subpart G—Hard Lead Refining Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nds per billion f hard lead
LeadZinc	.000 .000	.000

(i) Subpart G—Facility Washdown.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billior pounds) of lead bullior produced.	
LeadZinc	.000 .000	.000.

(j) Subpart G—Employee Handwash.

PSES

aximum or any 1 day	Maximum for monthly average
	a.orago
	nds per billion lead bullion
.924	.429 1.386

(k) Subpart G—Respirator Wash.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billior pounds) of lead bullior produced	
LeadZinc	1.484 5.406	.689 2.226

(l) Subpart G—Laundering of Uniforms.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of lead bullion produced	
Lead	4.340 15.810	2.015 6.510

§ 421.76 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary lead process wastewaters introduced into a POTW shall not exceed the following values.

(a) Subpart G—Sinter Plant Materials Handling Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billior pounds) of sinter produc- tion	
Lead Zinc	.000 .000	.000

(b) Subpart G—Blast Furnace Wet Pollution Control. Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billior pounds) of blast furnace lead bullion produced	
LeadZinc	.000 .000	.000 .000

(c) Subpart G—Blast Furnace Slag Granulation.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billio pounds) of blast furnac lead bullion produced	
LeadZinc	.000 .000	.000

(d) Subpart G—Dross Reverberatory Slag Granulation.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of slag, speiss or matte granulated	
LeadZinc	.000 .000	.000

(e) Subpart G—Dross Reverberatory Furnace Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billio pounds) of dross revel beratory furnace produc tion	
Lead	.000 .000	.000

(f) Subpart G—Zinc Fuming Wet Air Pollution Control

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PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of blast furnace lead bullion produced	
LeadZinc	.000 .000	.000 .000

(g) Subpart G—Hard Lead Refining Slag Granulation.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billio pounds) of hard lear produced	
LeadZinc	.000	.000

(h) Subpart G—Hard Lead Refining Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billio pounds) of hard lea produced	
Lead	.000	.000
LeadZinc	.00.	

(i) Subpart G—Facility Washdown.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billic pounds) of lead bullic produced	
LeadZinc	.000 .000	.000

(j) Subpart G-Employee Handwash.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of lead bullion produced	
LeadZinc	.924 3.366	.429 1.386

(k) Subpart G—Respirator Wash.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billio pounds) of lead bullio produced	
LeadZinc	1.484 5.406	.689 2.226

(l) Subpart G—Laundering of Uniforms.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kkg (pounds per billion pounds) of lead bullion produced	
Lead Zinc	4.340 15.810	2.015 6.510

§421.77 [Reserved]

Subpart H—Primary Zinc Subcategory

Source: 49 FR 8808, Mar. 8, 1984, unless otherwise noted.

$\$\,421.80$ Applicability: Description of the primary zinc subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of primary zinc by either electrolytic or pyrolytic means.

$\S 421.81$ Specialized definitions.

For the purpose of this subpart:

(a) Except as provided below, the general definitions, abbreviations, and

methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *product* shall mean zinc metal.

§ 421.82 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

EFFLUENT LIMITATIONS

Effluent characteristics	Maximum for any 1 day	Average of Daily values for 30 con- secutive days shall not exceed
	prod (1) English l	uits (kg/kkg of duct) Jnits (pounds pounds of
TSS	0.42	0.21
As	0.0016	0.0008
Cd	0.008	0.004
Se	0.08	0.04
Zn	0.08	0.04
pH	(1)	(1)

Within the range of 6.0 to 9.0.

[49 FR 8808, Mar. 8, 1984; 49 FR 26739, June 29, 1984]

§ 421.83 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart H—Zinc Reduction Furnace Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc reduced	
Cadmium Copper	.334 2.135 .467	.134 1.018 217
Zinc	1.702	.701

(b) Subpart H—Preleach of Zinc Concentrates.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of concentral leached	
Cadmium	.180	.072
Copper	1.153	.550
Lead	.252	.117
Zinc	.919	.378

(c) Subpart H—Leaching Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zinc proc- essed through leaching	
Cadmium	.000	.000
Lead	.000	.000
Zinc	.000	.000

$\begin{array}{ll} \hbox{(d)} & Subpart & H-\!Electrolyte & Bleed} \\ Wastewater. \end{array}$

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of cathode zin produced	
Cadmium	.086 .553 .121 .441	.035 .264 .056 .182

(e) Subpart H—Cathode and Anode Wash Wastewater.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode zinc produced	
Cadmium	.150	.060
Copper	.961	.458
Lead	.210	.098
Zinc	.766	.315

(f) Subpart H—Casting Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc cast	
Cadmium	.051	.021
Copper	.329	.157
Lead	.072	.033
Zinc	.262	.108

(g) Subpart H—Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc cast	
Cadmium	.036	.014
Copper	.232	.110
Lead	.051	.024
Zinc	.185	.076

(h) Subpart H—Cadmium Plant Wastewater.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cadmium pro duced	
Cadmium	1.234	.494
Copper	7.899	3.765
Lead	1.728	.802
Zinc	6.295	2.592

§ 421.84 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Subpart H—Zinc Reduction Furnace Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc reduced	
Cadmium Copper Lead Zinc Tola suspended solids pH	.334 2.135 .467 1.702 25.020	.134 1.018 .217 .701 20.020

¹ Within the range of 7.5 to 10.0 at all times.

(b) Subpart H—Preleach of Zinc Concentrates.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate leached	
Cadmium Copper Lead Zinc Total suspended solids pH	.180 1.153 .252 .919 13.520 (¹)	.072 .550 .117 .378 10.810

¹ Within the range of 7.5 to 10.0 at all times.

(c) Subpart H—Leaching Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc proc essed through leaching	
Cadmium	.000	.000
Copper	.000	.000
Lead	.000	.000
Zinc	.000	.000
Total suspended solids	.000	.000
pH	(¹)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

⁽d) Subpart H—Electrolyte Bleed Wastewater.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode zinc produced	
Cadmium	.086	.035
Copper	.553	.264
Lead	.121	.056
Zinc	.441	.182
Total suspended solids	6.480	5.184
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Subpart H—Cathode and Anode Wash Wastewater.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of cathode zind produced	
Cadmium	.150	.060
Copper	.961	.458
Lead	.210	.098
Zinc	.766	.315
Total suspended solids	11.270	9.012
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Subpart H—Casting Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc cast	
Cadmium Copper Lead Zinc Total suspended solids pH	.051 .329 .072 .262 3.855 (¹)	.021 .157 .033 .108 3.084 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Subpart H—Casting Contact Cooling.

NSPS

	Maximum	Maximum
Pollutant or pollutant property	for any 1 day	for monthly average
	mg/kg (pounds per million pounds) of zinc cast	
Cadmium	.036 .232	.014 .110

NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Lead	.051	.024
Zinc	.185	.076
Total suspended solids	2.715	2.172
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Subpart H—Cadmium Plant Wastewater.

NSPS

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of cadmium pro duced	
1.234 7.899	.494 3.765
1.728	.802
6.295	2.592
92.570	74.050
(1)	(1)
	for any 1 day mg/kg (pound pounds) of duced 1.234 7.899 1.728 6.295 92.570

¹ Within the range of 7.5 to 10.0 at all times.

[49 FR 8808, Mar. 8, 1984; 49 FR 26739, June 29, 1984, as amended at 49 FR 29795, July 24, 1984]

§ 421.85 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in primary zinc process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart H—Zinc Reduction Furnace Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc reduced	
CadmiumZinc	.334 1.702	.134 .701

(b) Subpart H—Preleach of Zinc Concentrates.

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PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate leached	
CadmiumZinc	.180 .919	.072 .378

(c) Subpart H—Leaching Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc proc- essed through leaching	
Cadmium	.000 .000	.000 .000

(d) Subpart H—Electrolyte Bleed Wastewater.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode zinc produced	
CadmiumZinc	.086 .441	.035 .182

(e) Subpart H—Cathode and Anode Wash Wastewater.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode zinc produced	
CadmiumZinc	.150 .766	.060 .315

(f) Subpart H—Casting Wet Air Pollution Control.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc cast	
CadmiumZinc	.051 .262	.021 .108

PSES

(g) Subpart H—Casting Contact Cooling.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc cast	
CadmiumZinc	.036 .185	.014 .076

(h) Subpart H—Cadmium Plant Wastewater.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of cadmium pro duced	
CadmiumZinc	1.234 6.295	.494 2.592

§ 421.86 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary zinc process wastewaters introduced into a POTW shall not exceed the following values:

(a) Subpart H—Zinc Reduction Furnace Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc reduced	
CadmiumZinc	.334 1.702	.134 .701

(b) Subpart H—Preleach of Zinc Concentrates.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of concentrate leached	
CadmiumZinc	.180 .919	.072 .378

(c) Subpart H—Leaching Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zinc proc- essed through leaching	
CadmiumZinc	.000 .000	.000 .000

(d) Subpart H—Electrolyte Bleed Wastewater.

PSNS

	Maximum	Maximum
Pollutant or pollutant property	for any 1 day	for monthly average
	mg/kg (pounds per million pounds) of cathode zinc produced	
CadmiumZinc	.086 .441	.035 .182

(e) Subpart H—Cathode and Anode Wash Wastewater.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of cathode zind produced	
CadmiumZinc	.150 .766	.060 .315

(f) Subpart H—Casting Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc cast	
CadmiumZinc	.051 .262	.021 .108

(g) Subpart H—Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zinc cast	
CadmiumZinc	0.036 0.185	0.014 0.076

(h) Subpart H—Cadmium Plant Wastewater.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million cadmium pro-
CadmiumZinc	1.234 6.295	0.494 2.592

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§ 421.87 [Reserved]

Subpart I—Metallurgical Acid Plants Subcategory

§ 421.90 Applicability: Description of the metallurgical acid plants subcategory.

The provisions of this subpart apply to process wastewater discharges resulting from or associated with the manufacture of by-product sulfuric acid at primary copper smelters, primary zinc facilities, primary lead facilities, and primary molybdenum facilities, including any associated air pollution control or gas-conditioning systems for sulfur dioxide off-gases from pyrometallurgical operations.

 $[49\; FR\; 8811,\; Mar.\; 8,\; 1984,\; as\; amended\; at\; 50\; FR\; 38342,\; Sept.\; 20,\; 1985]$

§ 421.91 Specialized definitions.

- (a) Except as provided below, the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 apply to this subpart.
- (b) The term *product* means 100 percent equivalent sulfuric acid, H_2 SO₄ capacity.

[50 FR 38342, Sept. 20, 1985]

§ 421.92 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

SUBPART I-METALLURGICAL ACID PLANT

	BPT effluent limitations	
Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds of 100% sulfurion acid capacity	
Cadmium	0.180 5.000	0.090 2.000

SUBPART I—METALLURGICAL ACID PLANT—
Continued

	BPT effluent limitations	
Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Lead	1.800	0.790
Zinc	3.600	0.900
Fluoride 1	212.800	121.000
Molybdenum 1	40.180	20.790
Total suspended solids	304.000	152.000
pH	2	2

¹ For Molvbdenum Acid Plants Only.

[50 FR 38342, Sept. 20, 1985; 50 FR 52776, Dec. 26, 1985]

§ 421.93 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

SUBPART I—METALLURGICAL ACID PLANT—BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of furic acid ca	100 pct sul-
Arsenic Cadmium Copper Lead Zinc Fluoride¹ Molybdenum¹	3.550 0.511 3.269 0.715 2.605 89.390 [Reserved]	1.584 0.204 1.558 0.332 1.073 50.820 [Reserved].

¹ For Molybdenum acid plants only.

[50 FR 38343, Sept. 20, 1985, as amended at 55 FR 31697, Aug. 3, 1990]

§ 421.94 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

² Within the range of 6.0 to 9.0 at all times.

SUBPART I—METALLURGICAL ACID PLANT— NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per/million 100 pct sul- apacity
Arsenic Cadmium Copper Lead Zinc Fluoride¹ Molybdenum¹ Total suspended solids pH	3.550 0.511 3.269 0.715 2.605 89.390 [Reserved] 38.310 (²)	1.584 0.204 1.558 0.332 1.073 50.820 [Reserved]. 30.650 (2)

¹For Molybdenum acid plants only. ²Within the range of 7.5 to 10.0 at all times.

[50 FR 38343, Sept. 20, 1985, as amended at 55 FR 31697, Aug. 3, 1990]

§ 421.95 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in metallurgical acid plant blowdown introduced into a POTW shall not exceed the following values:

SUBPART I—METALLURGICAL ACID PLANT—PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per/million pounds) of 100 pct sul- furic acid capacity	
CadmiumZinc	0.511 2.605	0.204 1.073

[50 FR 38343, Sept. 20, 1985]

§421.96 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in metallurgical

acid plant blowdown introduced into a POTW shall not exceed the following values:

SUBPART I—METALLURGICAL ACID PLANT—PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of furic acid ca	100 pct sul-
Arsenic Cadmium Copper Lead Zinc Fluoride 1	3.550 0.511 3.269 0.715 2.605 89.390	1.584 0.204 1.558 0.332 1.073 50.820
Molybdenum 1	[Reserved]	[Reserved].

¹ For Molybdenum acid plants only.

[50 FR 38343, Sept. 20, 1985, as amended at 55 FR 31697, Aug. 3, 1990]

§ 421.97 [Reserved]

Subpart J—Primary Tungsten Subcategory

§ 421.100 Applicability: Description of the primary tungsten subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of tungsten at primary tungsten facilities.

[49 FR 8812, Mar. 8, 1984]

§421.101 Specialized definitions.

For the purpose of this subpart the general information, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

[49 FR 8812, Mar. 8, 1984]

§ 421.102 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Subpart J-Tungstic Acid Rinse.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungstic acid (as W) produced	
Lead	17.230	8.205
Zinc	59.900	25.030
Ammonia (as N)	5,469.000	2,404.00
Total suspended solids	1,682.000	800.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(b) Subpart J-Acid Leach Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungstic acid (as W) produced	
Lead	15.040	7.162
Zinc	52.280	21.840
Ammonia (as N)	4,773.000	2,098.000
Total suspended solids	1,468.000	698.300
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(c) Subpart J-Alkali Leach Wash.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of sodiur tungstate (as W) pro duced	
Lead	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(d) Subpart J-Alkali Leach Wash Condensate.

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BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of sodiur tungstate (as W) pro duced	
Lead	8.057	3.837
Zinc	28.011	11.700
Ammonia (as N)	2,557.000	1,124.000
Total suspended solids	786.200	374.100
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(e) Subpart J-Ion Exchange Raffinate (Commingled With Other Process or Nonprocess Waters).

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f ammonium (as W) pro-
Lead	37.160	17.700
Zinc	129.200	53.970
Ammonia (as N)	11,790.000	5,185.000
Total Suspended solids	3,627.000	1,726.000
pH	(¹)	(¹)

¹ Within the range of 7.0 to 10.0 at all times.

(f) Subpart J-Ion Exchange Raffinate (Not Commingled With Other Process or Nonprocess Waters).

BPT EFFLUENT LIMITATIONS

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per millio pounds) of ammoniur tungstate (as W) pro duced	
37.160 129.200 11,790.000 3,627.000	17.700 53.970 5,185.000 1,726.000
	mg/kg (pound pounds) o tungstate duced 37.160 129.200 11,790.000

(g) Subpart J—Calcium Tungstate Precipitate Wash.

¹ Within the range of 7.0 to 10.0 at all times.
2 The effluent limitation guideline for this pollutant does not apply if (a) the mother liquor feed to the ion exchange process or the raffinate from the ion exchange process contains sulfates at concentrations exceeding 1000 mg/l; (b) this mother liquor or raffinate is treated by ammonia steam stripping; and (c) such mother liquor or raffinate is not commingled with any other process or nonprocess waters prior to steam stripping for ammonia removal.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of calciun tungstate (as W) pro duced	
Lead	31.000	14.760
Zinc	107.800	45.020
Ammonia (as N)	9,838.000	4,325.000
Total suspended solids	3,026.000	1,439.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(h) Subpart J—Crystallization and Drying of Ammonium Paratungstate.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of ammoniun paratungstate (as W produced	
Lead	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.0 to 10.0 at all times.}$

(i) Subpart J—Ammonium Paratungstate Conversion to Oxides Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tungstic oxid (as W) produced	
Lead	11.600 40.320	5.523 16.850
ZincAmmonia (as N)	3,681.000	1.618.000
` '	l '	,
Total suspended solids	1,132.000	538.500
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(j) Subpart J—Ammonium Paratungstate Conversion to Oxides Water of Formation.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tungstic oxid (as W) produced	
Lead	0.026 0.092 8.398 2.583 (1)	0.013 0.038 3.692 1.229

¹ Within the range of 7.0 to 10.0 at all times.

(k) Subpart J—Reduction to Tungsten Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of tungste metal produced	
Lead	12.940 44.970 4,106.000 1,263.000 (¹)	6.161 18.790 1,805.000 600.700 (1)

¹ Within the range of 7.0 to 10.0 at all times.

(l) Subpart J—Reduction to Tungsten Water of Formation.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tungste metal produced	
Lead Zinc Ammonia (as N) Total suspended solids pH	.205 .714 65.190 20.050 (¹)	.098 .298 28.660 9.536 (1)

 $^{^{\}mbox{\scriptsize 1}}\mbox{\ensuremath{\mbox{Within}}}$ the range of 7.0 to 10.0 at all times.

(m) Subpart J—Tungsten Powder Acid Leach and Wash.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per milli pounds) of tungst metal produced	
Lead Zinc Ammonia (as N)	1.008 3.504 319.900	0.48 1.464 140.700

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BPT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Total suspended solidspH	98.400 (¹)	46.800 (¹)

¹ Within the range of 7.0 to 10.0 at all times.

(n) Subpart J—Molybdenum Sulfide Precipitation Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungster metal produced	
Lead	.000	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000
<u>pH</u>	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

[49 FR 8812, Mar. 8, 1984, as amended at 53 FR 1706, Jan. 21, 1988]

§ 421.103 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart J—Tungstic Acid Rinse.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstic acid (as W) produced	
Lead	11.490	5.333 17.230
Zinc Ammonia (as N)	41.850 5,469.000	2,404.000

(b) Subpart J—Acid Leach Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungstic acid (as W) produced	
Lead Zinc Ammonia (as N)	1.003 3.653 477.400	0.466 1.504 209.900

(c) Subpart J-Alkali Leach Wash.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per mill pounds) of sodi tungstate (as W) p duced	
Lead Zinc Ammonia (as N)	0.000 0.000 0.000	0.000 0.000 0.000

(d) Subpart J—Alkali Leach Wash Condensate.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of sodiur tungstate (as W) pro duced	
Lead Zinc	5.372 19.570 2,557.000	2.494 8.057 1,124.000

(e) Subpart J—Ion Exchange Raffinate (Commingled With Other Process or Nonprocess Waters).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of ammoniu tungstate (as W) produced	
Lead ZincAmmonia (as N)	24.780 90.240 11,790.000	11.500 37.160 5,185.000

(f) Subpart J—Ion Exchange Raffinate (Not Commingled With Other Process or Nonprocess Waters).

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of ammonium tungstate (as W) pro- duced	
Lead	24.780	11.500
Zinc	90.240	37.160
Ammonia (as N) 1	11,790.000	5,185.000

¹ The effluent limitation for this pollutant does not apply if a) the motor liquor feed to the ion exchange process or the raffinate from the ion exchange process contains sulfates at concentrations exceeding 1000 mg/1; b) this mother liquor or raffinate is treated by ammonia steam stripping; and c) such mother liquor or raffinate is not commingled with any other process or nonprocess waters prior to steam stripping for ammonia removal.

(g) Subpart J—Calcium Tungstate Precipitate Wash.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per/million pounds) of calciun tungstate (as W) pro- duced	
Lead Zinc	20.670 75.280 9,838.000	9.594 31.000 4,325.000

$\begin{array}{ll} \mbox{(h)} & \mbox{Subpart} & \mbox{J--Crystallization} & \mbox{and} \\ \mbox{Drying of Ammonium Paratung state}. \end{array}$

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per/million pounds) of ammonius paratungstate (as Naproduced	
Lead	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	0.000

(i) Subpart J—Ammonium Paratungstate Conversion to Oxides Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per/millior pounds) of tungstic oxide (as W) produced	
Lead Zinc Ammonia (as N)	0.773 2.817 368.200	0.359 1.160 161.900

(j) Subpart J—Ammonium Paratungstate Conversion to Oxides Water of Formation.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per/millic pounds) of tungstic oxic (as W) produced	
Lead	0.018	0.008
Zinc	0.064	0.026
Ammonia (as N)	8,398	3.692

(k) Subpart J—Reduction to Tungsten Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per/millio pounds) of tungste metal produced	
Lead Zinc Ammonia (as N)	0.862 3.142 410.600	0.400 1.294 180.500

(l) Subpart J—Reduction to Tungsten Water of Formation.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per/millio pounds) of tungste metal produced	
Lead Zinc Ammonia (as N)	0.137 0.499 65.190	0.064 0.205 28.660

(m) Subpart J—Tungsten Powder Acid Leach and Wash.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungster metal produced	
Lead Zinc	0.672 2.448 319.900	0.312 1.008 140.700

(n) Subpart J-Molybdenum Sulfide Precipitation Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungster metal produced	
LeadZincAmmonia (as N)	0.000 0.000 0.000	0.000 0.000 0.000

 $[49\;\mathrm{FR}\;8812,\;\mathrm{Mar.}\;8,\;1984,\;\mathrm{as}\;\mathrm{amended}\;\mathrm{at}\;53\;\mathrm{FR}\;1708,\;\mathrm{Jan.}\;21,\;1988]$

§421.104 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:
(a) Subpart J—Tungstic Acid Rinse.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstic acid (as W) produced	
Lead	11.490	5.333
Zinc	41.850	17.230
Ammonia (as N)	5,469.000	2,404.000
Total suspended solids	615.400	492.300
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(b) Subpart J—Acid Leach Wet Air Pollution

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NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million tungstic acid duced
Lead	1.003	0.466
Zinc	3.653	1.504
Ammonia (as N)	477.400	209.900
Total suspended solids	53.720	42.970
pH	(¹)	(¹)

¹ Within the range of 7.0 to 10.0 at all times.

(c) Subpart J—Alkali Leach Wash.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of sodium (as W) pro-
Lead	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	0.000
Total suspended solids	0.000	0.000
pH	(¹)	(¹)

¹ Within the range of 7.0 to 10.0 at all times.

(d) Subpart J-Alkali Leach Wash Condensate.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of sodium (as W) pro-
Lead	5.372	2.494
Zinc	19.570	8.057
Ammonia (as N)	2,557.000	1,124.000
Total suspended solids	287.800	229.600
<u>pH</u>	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(e) Subpart J-Ion Exchange Raffinate (Commingled With Other Process or Nonprocess Waters).

NSPS

Pollutant or pollutant property	Maximum for any 1	Maximum for monthly
	mg/kg (pounds per millior pounds) of ammonium tungstate (as W) pro duced	
Lead	24.780	11.500
Zinc	90.240	37.160
Ammonia (as N)	11,790.000	5,185.000
Total suspended solids	1,327.000	1,062.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(f) Subpart J-Ion Exchange Raffinate (Not Commingled With Other Process or Nonprocess Waters).

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of ammonium tungstate (as W) pro duced	
Lead	24.780	11.500
Zinc	90.240	37.160
Ammonia (as N) (2)	11,790.000	5,185.000
Total suspended solids	1,327.000	1,062.000
pH	(1)	(1)

(g) Subpart J-Calcium Tungstate Precipitate Wash.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of calciuntungstate (as W) produced	
Lead Zinc Ammonia (as N) Total suspended solids pH	20.670 75.280 9,838.000 1,107.000 (¹)	9.594 31.000 4,325.000 885.600 (1)

¹ Within the range of 7.0 to 10.0 at all times.

(h) Subpart J-Crystallization and Drying of Ammonium Paratungstate.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of ammoniur paratungstate (as W produced	
Lead	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

Subpart J—Ammonium Paratungstate Conversion to Oxides Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound per millio pounds) of tungstic oxid (as W) produced	
Lead	0.773	0.359
Zinc	2.817	1.160
Ammonia (as N)	368.200	161.900
Total suspended solids	41.430	33.150
pH	(1)	(¹)

¹ Within the range of 7.0 to 10.0 at all times.

Subpart J-Ammonium Paratungstate Conversion to Oxides Water of Formation.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of (as W) prod	tungstic oxide
Lead	0.018 0.064 8.398 0.945 (¹)	0.008 0.026 3.692 0.756 (1)

¹ Within the range of 7.0 to 10.0 at all times.

¹ Within the range of 7.0 to 10.0 at all times.
² The new source standard for this pollutant does not apply if (a) the mother liquor feed to the ion exchange process or the raffinate from the ion exchange process contains sulfates at concentrations exceeding 1000 mg/l; (b) this mother liquor or raffinate is treated by ammonia steam stripping; and (c) such mother liquor or raffinate is not commingled with any other process or nonprocess waters prior to steam stripping for ammonia removal.

⁽k) Subpart J-Reduction to Tungsten Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of tungsten uced
Lead	.862	.400
Zinc	3.142	1.294
Ammonia (as N)	410.600	180.500
Total suspended solids	46.200	36.960
pH	(¹)	(¹)

¹Within the range of 7.0 to 10.0 at all times.

(l) Subpart J—Reduction to Tungsten Water of Formation.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungster metal produced	
Lead	.137	.064
Zinc	.499	.205
Ammonia (as N)	65.190	28.660
Total suspended solids	7.335	5.868
pH	(1)	(¹)

¹Within the range of 7.0 to 10.0 at all times.

(m) Subpart J—Tungsten Power Acid Leach and Wash.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungster metal produced	
Lead	.672	.312
Zinc	2.448	1.008
Ammonia (as N)	319.900	140.700
Total suspended solids	36.000	28.800
pH	(1)	(1)

¹Within the range of 7.0 to 10.0 at all times.

(n) Subpart J—Molybdenum Sulfide Precipitation Wet Air Pollution Control. $\ensuremath{\mathsf{Con-trol}}$

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungster metal produced	
Lead	.00	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹Within the range of 7.0 to 10.0 at all times.

 $[49\; FR\; 8812,\; Mar.\; 8,\; 1984,\; as\; amended\; at\; 53\; FR\; 1709,\; Jan.\; 21,\; 1988]$

\$421.105 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in primary tungsten process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart J—Tungstic Acid Rinse.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstic acid (as W) produced	
Lead	11.490 41.850 5,469.000	5.333 17.230 2,404.000

(b) Subpart J—Acid Leach Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstic acid (as W) produced	
Lead Zinc	1.003 3.653 477.400	0.466 1.504 209.900

(c) Subpart J—Alkali Leach Wash.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstate (as W) produced	
Lead Zinc Ammonia (as N)	0.000 0.000 0.000	0.000 0.000 0.000

(d) Subpart J—Alkali Leach Wash Condensate.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of sodiun tungstate (as W) pro duced	
Lead Zinc	5.372 19.570 2,557.000	2.494 8.057 1,124.000

(e) Subpart J—Ion Exchange Raffinate (Commingled With Other Process or Nonprocess Waters).

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungstate (as W) produced	
Lead Zinc Ammonia (as N)	24.780 90.240 11,790.000	11.500 37.160 5,185.000

(f) Subpart J—Ion Exchange Raffinate (Not Commingled With Other Process or Nonprocess Waters).

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of ammoniur tungstate (as W) pro duced	
Lead	24.780	11.500
Zinc	90.240	37.160

PSES—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N) ¹	11,790.000	5,185.000

1The pretreatment standard for this pollutant does not apply if (a) the mother liquor feed to the ion exchange process or the raffinate from the ion exchange process contains sulfate at concentrations exceeding 1000 mg/l; (b) this mother liquor or raffinate is treated by ammonia steam stripping; and (c) such mother liquor or raffinate is not commingled with any other process or nonprocess waters prior to steam stripping for ammonia removal.

$\begin{tabular}{ll} \begin{tabular}{ll} \beg$

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of calcium (as W) pro-
LeadZincAmmonia (as N)	20.670 75.280 9,838.000	9.594 31.000 4,325.000

(h) Subpart J—Crystallization and Drying of Ammonium Paratungstate.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of ammoniur paratungstate (as W produced	
Lead Zinc Ammonia (as N)	0.000 0.000 0.000	0.000 0.000 0.000

(i) Subpart J—Ammonium Paratungstate Conversion to Oxides Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstic oxide (as W) produced	
Lead Zinc Ammonia (as N)	0.773 2.817 368.200	0.359 1.160 161.900

(j) Subpart J—Ammonium Paratungstate Conversion to Oxides Water of Formation.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungstic oxide (as W) produced	
Lead	0.018 0.064 8.398	0.008 0.026 3.692

(k) Subpart J—Reduction to Tungsten Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungster metal produced	
Lead	.862 3.142	.400 1.294
Ammonia (as N)	410.600	180.500

(l) Subpart J—Reduction to Tungsten Water of Formation.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungster metal produced	
Lead Zinc	.137 .499 65.190	.064 .205 28.660

(m) Subpart J—Tungsten Powder Acid Leach and Wash.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tungste metal produced	
Lead Zinc	.672 2.448 319.900	.312 1.008 140.700

(n) Subpart J—Molybdenum Sulfide Precipitation Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds of tungster metal produced	
Lead	0.000	0.000
Zinc	0.000	0.000
Ammonia (as N)	0.000	0.000

[49 FR 8812, Mar. 8, 1984, as amended at 53 FR 1711, Jan. 21, 1988]

§ 421.106 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary tungsten process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart J—Tungstic Acid Rinse.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tungstic aci (as W) produced	
Lead Zinc Ammonia (as N)	11.490 41.850 5,469.000	5.333 17.230 2,404.000

(b) Subpart J—Acid Leach Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million of tungstic acid (as W produced	
Lead Zinc	1.003 3.653 477.400	0.466 1.504 209.900

(c) Subpart J—Alkali Leach Wash.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of sodium tungstate (as W) produced	
Lead Zinc Ammonia (as N)	0.000 0.000 0.000	0.000 0.000 0.000

(d) Subpart J—Alkali Leach Wash Condensate.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of sodium tungstate (as W) produced	
Lead Zinc	5.372 19.570 2,557.000	2.494 8.057 1,124.000

(e) Subpart J—Ion Exchange Raffinate (Commingled With Other Process or Nonprocess Waters).

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of ammonium tungstate (as W) produced	
Lead Zinc	24.780 90.240 11,790.000	11.500 37.160 5,185.000

(f) Subpart J—Ion Exchange Raffinate (Not Commingled With Other Process or Nonprocess Waters).

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million of ammonium tungstate (as W) produced	
Lead	24.780 90.240	11.500 37.160

PSNS—Continued

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
Ammonia (as N)(1)	11,790.000	5,185.000

1 The pretreatment standard for this pollutant does not apply if a) the mother liquor feed to the ion exchange process or the raffinate from the ion exchange process contains sulfates at concentrations exceeding 1000 mg/l; b) this mother liquor or raffinate is treated by ammonia steam stripping; and c) such mother liquor or raffinate is not commingled with any other process or nonprocess waters prior to steam stripping for ammonia removal.

(g) Subpart J—Calcium Tungstate Precipitate Wash.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million of calcium tungstate (as W) produced	
Lead Zinc Ammonia (as N)	20.670 75.280 9,838.000	9.594 31.000 4,325.000

(h) Subpart J—Crystallization and Drying of Ammonium Paratungstate.

PSNS

Maximum for any one day	Maximum for monthly average
mg/kg (pounds per million of ammoniur paratungstate (as W produced	
0.000 0.000 0.000	0.000 0.000 0.000
	for any one day mg/kg (pound of paratungsta produced 0.000 0.000

(i) Subpart J—Ammonium Paratungstate Conversion to Oxides Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pound of tungstic produced	ds per million) oxide (as W)
Lead Zinc Ammonia (as N)	0.773 2.817 368.200	0.359 1.160 161.900

(j) Subpart J—Ammonium Paratungstate Conversion to Oxides Water of Formation.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of tungstic oxide (as W) produced	
Lead Zinc Ammonia (as N)	0.018 0.064 8.398	0.008 0.026 3.692

(k) Subpart J—Reduction to Tungsten Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (pounds per million) of tungsten metal produced	
LeadZinc	.862 3.142 410.600	.400 1.294 180.500

(l) Subpart J—Reduction to Tungsten Water of Formation.

PSNS

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Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (lb/ million lbs) of tungsten metal produced	
Lead Zinc Ammonia (as N)	.137 .499 65.190	.064 .205 28.660

(m) Subpart J—Tungsten Powder Acid Leach and Wash.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (parts per million) of tungsten metal produced	
Lead Zinc	.672 2.448 319.900	.312 1.008 140.700

(n) Subpart J—Molybdenum Sulfide Precipitation Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any one day	Maximum for monthly average
	mg/kg (parts tungsten me	per million) of tal produced
Lead Zinc Ammonia (as N)	0.000 0.000 0.000	0.000 0.000 0.000

[49 FR 8812, Mar. 8, 1984, as amended at 53 FR 1712, Jan. 21, 1988]

§ 421.107 [Reserved]

Subpart K—Primary Columbium-Tantalum Subcategory

§ 421.110 Applicability: Description of the primary columbium-tantalum subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of columbium or tantalum by primary columbium-tantalum facilities.

[49 FR 8817, Mar. 8, 1984]

§421.111 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

[49 FR 8817, Mar. 8, 1984]

§ 421.112 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Subpart K—Concentrate Digestion Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f concentrate
Lead	2.612	1,244
Zinc	9.080	3.794
Ammonia (as N)	829.000	364.500
Fluoride	217.700	124.400
Total suspended solids	255.000	121.300
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Subpart K—Solvent Extraction Raffinate.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f concentrate
Lead	3.888	1.851
Zinc	13.520	5.647
Ammonia (as N)	1,233.000	542.500
Fluoride	324.000	185.100
Total Suspended Solids	379.500	189.500
pH	(¹)	(¹)

AAWithin the range of 7.5 to 10.0 at all times.

(c) Subpart K—Solvent Extraction Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1	Maximum for monthly
Foliation politicant property	day	average
	mg/kg (pound pounds) of digested	ds per million f concentrate
Lead	1.032	.491
Zinc	3.586	1.498
Ammonia (as N)	327.400	143.900
Fluoride	85.960	49.120
Total suspended solids	100.700	47.890
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Subpart K—Precipitation and Filtration.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f concentrate
Lead	5.750	2.738
Zinc	19.990	8.350
Ammonia (as N)	1,825.000	802.200
Fluoride	479.100	273.800
Total suspended solids	561.300	267.000
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Subpart K—Precipitation and Filtration Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f concentrate
Lead	26.680	12.700
Zinc	92.730	38.740
Ammonia (as N)	8,466.000	3,722.000
Fluoride	2,223.000	1,270.000
Total suspended solids	2,604.000	1,239.000
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Subpart K—Tantalum Salt Drying.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of dried	ds per millior tantalum sal
Lead	25.430 88.390 8,070.000 2,119.000 2,482.000 (¹)	12.110 36.930 3,548.000 1,211.000 1,181.000

¹ Within the range of 7.5 to 10.0 at all times.

(g) Subpart K—Oxides Calcining Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of columbium- tantalum oxide dried	
Lead	16.140 56.100 5,122.000 1,345.000 1,576.000	7.685 23.440 2,252.000 768.500 749.200
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Subpart K—Reduction of Tantalum Salt to Metal.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalum salt reduced	
Lead	69.750	33.220
Zinc	242.500	101.300
Ammonia (as N)	22,140.000	9,732.000
Fluoride	5,813.000	3,322.000
Total suspended solids	6,809.000	3,239.000
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Subpart K—Reduction of Tantalum Salt to Metal Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tantalum sali reduced	
Lead	.858 2.983 272.400 71.510 83.770	.409 1.246 119.700 40.860 39.840

¹ Within the range of 7.5 to 10.0 at all times.

(j) Subpart K—Tantalum Powder Wash.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tantalun power washed	
Lead	8.582	4.087
Zinc	29.830	12.470
Ammonia (as N)	2,724.000	1,198.000
Fluoride	715.200	408.700
Total suspended solids	837.800	398.500
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Subpart K—Consolidation and Casting Contact Cooling.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of columbium tantalum cast or conso dated	
Lead	.000	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000
Fluoride	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

[49 FR 8817, Mar. 8, 1984, as amended at 49 FR 29795, July 24, 1984; 50 FR 12253, Mar. 28, 1985]

§ 421.113 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart K—Concentrate Digestion Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of concentrate digested	
Lead Zinc	.174 .635 82.910 21.770	.081 .261 36.450 12.440

(b) Subpart K—Solvent Extraction Raffinate.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/Kg (pounds per million pounds) of concentrate di gested	
LeadZincAmmonia (as N)Fluoride	2.592 9.442 1,233.000 324.000	1.203 3.888 542.5000 185.100

(c) Subpart K—Solvent Extraction Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
Lead Zinc Ammonia (as N) Fluoride	.069 .251 32.790 8.610	.032 .103 14.420 4.920

(d) Subpart K—Precipitation and Filtration.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f concentrate
LeadZincAmmonia (as N)	3.833 13.960 1,825.000 479.100	1.780 5.750 802.200 273.800

(e) Subpart K—Precipitation and Filtration Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f concentrate
Lead Zinc Ammonia (as N) Fluoride	1.778 6.478 846.600 222.300	.826 2.668 372.200 127.000

(f) Subpart K—Tantalum Salt Drying.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million tantalum salt
Lead Zinc Ammonia (as N) Fluoride	16.950 61.750 8,070.000 2,119.000	7.871 25.430 3,548.000 1,211.000

(g) Subpart K—Oxides Calcining Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of columbiun tantalum oxide	
LeadZincAmmonia (as N)Fluoride	1.076 3.919 512.200 134.500	.500 1.614 225.200 76.840

(h) Subpart K—Reduction of Tantalum Salt to Metal.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tantalum sa reduced	
Lead	46.500 169.400 22,140.000 5,813.000	21.590 69.750 9,732.000 3,322.000

(i) Subpart K—Reduction of Tantalum Salt to Metal Wet Air Pollution Control.

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BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tantalum sal reduced	
Lead Zinc Fluoride	.572 2.084 71.510	.266 .858 40.860

(j) Subpart K-Tantalum Powder Wash.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalum powder washed	
Lead	5.721	2.656
Zinc	20.840	8.582
Ammonia (as N)	2,724.000	1,198.000
Fluoride	715.200	408.700

(k) Subpart K-Consolidation and Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of columbium or tantalum cast or consoli- dated	
Lead Zinc Ammonia (as N) Fluoride	.000 .000 .000	.000 .000 .000

[49 FR 8817, Mar. 8, 1984, as amended at 50 FR 12253, Mar. 28, 1985]

§ 421.114 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Subpart K-Concentrate Digestion Wet Air Pollution Control.

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of digested	ds per millio f concentrat
	I	l .

ate .081 Lead174 Zinc635 .261 Ammonia (as N) 82.910 36.450 21.770 Fluoride 12.440 Total suspended solids 9.330 7.464 (1)

NSPS

(b) Subpart K—Solvent Extraction Raffinate.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million concentrate di-
Lead	2.592 9.442 1,233.000 324.000 138.900 (¹)	1.203 3.888 542.5000 185.100 111.100 (¹)

AA1 Within the range of 7.5 to 10.0 at all times.

(c) Subpart K—Solvent Extraction Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per milli pounds) of concentra digested	
Lead	.069	.032
Zinc	.251	.103
Ammonia (as N)	32.790	14.420
Fluoride	8.610	4.920
Total suspended solids	3.690	2.952
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Subpart K-Precipitation and Filtration.

¹ Within the range of 7.5 to 10.0 at all times.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
Lead	3.833 13.960	1.780 5.750
Ammonia (as N)	1,825.000	802.200
Fluoride	479.100	273.800
Total suspended solids	205.400	164.300
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Subpart K—Precipitation and Filtration Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of concentrate digested	
Lead	1.778	.826
Zinc	6.478	2.668
Ammonia (as N)	846.600	372.200
Fluoride	222.300	127.000
Total suspended solids	95.270	76.210
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Subpart K—Tantalum Salt Drying.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tantalum sa dried	
Lead	16.950	7.871
Zinc	61.750	25.430
Ammonia (as N)	8,070.000	3,548.000
Fluoride	2,119.000	1,211.000
Total suspended solids	908.200	726.500
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Subpart K—Oxides Calcining Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of columbium tantalum oxide dried	
Lead	1.076	.500
Zinc	3.919	1.614
Ammonia (as N)	512.200	225.200
Fluoride	134.500	76.840
Total suspended solids	57.630	46.110
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Subpart K—Reduction of Tantalum Salt to Metal.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of reduced	ds per million tantalum salt
Lead	46.500 169.400 22,140.000 5,813.000 2,491.000 (1)	21.590 69.750 9,732.000 3,322.000 1,993.000

¹ Within the range of 7.5 to 10.0 at all times.

(i) Subpart K—Reduction of Tantalum Salt to Metal Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tantalum sa reduced	
Lead	.572	.266
Zinc	2.084	.858
Ammonia (as N)	272.400	119.700
Fluoride	71.510	40.860
Total suspended solids	30.650	24.520
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

⁽j) Subpart K—Tantalum Powder Wash.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tantalum powder washed	
Lead	5.721	2.656
Zinc	20.840	8.582
Ammonia (as N)	2,724.000	1,198.000
Fluoride	715.200	408.700
Total suspended solids	306.500	245.200
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Subpart K—Consolidation and Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million columbium or ast or consoli-
Lead	.000	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000
Fluoride	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

[49 FR 8817, Mar. 8, 1984, as amended at 49 FR 29795, July 24, 1984; 50 FR 12253, Mar. 28, 1985]

§ 421.115 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in primary columbium-tantalum process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart K—Concentrate Digestion Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f concentrate
LeadZincAmmonia (as N)Fluoride	.174 .635 82.910 21.770	.081 .261 36.450 12.440

(b) Subpart K—Solvent Extraction Raffinate.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of concentrate digested	
Lead Zinc	2.592 9.442 1,233.000 324.000	1.203 3.888 542.5000 185.100

(c) Subpart K—Solvent Extraction Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per milli pounds) of concentra digested	
LeadZincAmmonia (as N)	.069 .251 32.790 8.610	.032 .103 14.420 4.920

(d) Subpart K—Precipitation and Filtration.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of digested	ds per million f concentrate
Lead Zinc Ammonia (as N)	3.833 13.960 1,825.000	1.780 5.750 802.200

PSES—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Fluoride	479.100	273.800

(e) Subpart K—Precipitation and Filtration Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of concentrate digested	
Lead	1.778	.826
Zinc	6.478	2.668
Ammonia (as N)	846.600	372.200
Fluoride	222.300	127.000
Tidonde	222.500	121

(f) Subpart K—Tantalum Salt Drying.

PSES

Pollutant or pollutant property	Maximum for any 1 day Maximum for monthly average mg/kg (pounds per millio pounds) of tantalum sa dried	
Lead	16.950	7.871
Zinc	61.750	25.430
Ammonia (as N)	8,070.000	3,548.000
Fluoride	2,119.000	1,211.000

(g) Subpart K—Oxides Calcining Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of columbium tantalum oxide dried	
Lead Zinc	1.076 3.919 512.200 134.500	.500 1.614 225.200 76.840

(h) Subpart K—Reduction of Tantalum Salt to Metal.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tantalum sali reduced	
Lead Zinc Ammonia (as N) Fluoride	46.500 169.400 22,140.000 5,813.000	21.590 69.750 9,732.000 3,322.000

(i) Subpart K—Reduction of Tantalum Salt to Metal Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per mill pounds) of tantalum s reduced	
Lead	.572 2.084	.266
Ammonia (as N)	272.400 71.510	119.700 40.860

(j) Subpart K—Tantalum Powder Wash.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tantalur powder washed	
Lead	5.721	2.656
Zinc	20.840	8.582
Ammonia (as N)	2,724.000	1,198.000
Fluoride	715.200	408.700

$\begin{tabular}{ll} (k) & Subpart & K-Consolidation & and \\ Casting & Contact & Cooling. \end{tabular}$

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of columbium of tantalum cast or consoli- dated	
Lead Zinc Ammonia (as N) Fluoride	.000 .000 .000	.000 .000 .000

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§421.116

[49 FR 8817, Mar. 8, 1984, as amended at 50 FR 12253, Mar. 28, 1985]

§ 421.116 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary columbium-tantalum process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart K—Concentrate Digestion Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of concentrate digested	
Lead	.174 .635 82.910 21.770	.081 .261 36.450 12.440

(b) Subpart K—Solvent Extraction Raffinate.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of concentrate of gested	
Lead	2.592 9.442	1.203 3.888
Ammonia (as N)	1,233.000 324.000	542.5000 185.100

(c) Subpart K—Solvent Extraction Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f concentrate
Lead	.069	.032

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Zinc	.251	.103
Ammonia (as N)	32.790	14.420
Fluoride	8.610	4.920

PSNS—Continued

(d) Subpart K—Precipitation and Filtration.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per milli pounds) of concentra digested	
Lead	3.833	1.780
Zinc	13.960	5.750
Ammonia (as N)	1,825.000	802.200
Fluoride	479.100	273.800

(e) Subpart K—Precipitation and Filtration Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of concentrat digested	
Lead	1.778	.826
Zinc	6.478	2.668
Ammonia (as N)	846.600	372.200
Fluoride	222.300	127.000

(f) Subpart K—Tantalum Salt Drying.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tantalum sa dried	
Lead	16.950	7.871
Zinc	61.750	25.430
Ammonia (as N)	8,070.000	3,548.000
Fluoride	2,119.000	1,211.000

(g) Subpart K—Oxides Calcining Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of columbium- tantalum oxide dried	
Lead	1.076 3.919 512.200 134.500	.500 1.614 225.200 76.840

(h) Subpart K—Reduction of Tantalum Salt to Metal.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tantalum sal reduced	
Lead Zinc	46.500 169.400 22,140.000 5,813.000	21.590 69.750 9,732.000 3,322.000

(i) Subpart K—Reduction of Tantalum Salt to Metal Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tantalum sal reduced	
Lead	.572 2.084 272.400 71.510	.266 .858 119.700 40.860

(j) Subpart K—Tantalum Powder Wash.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalum powder washed	
Lead	5.721 20.840 2,724.000 715.200	2.656 8.582 1,198.000 408.700

(k) Subpart K—Consolidation and Casting Contact Cooling.

PSNS

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per millior pounds) of columbium of tantalum cast or consoli- dated	
.000 .000 .000	.000 .000 .000
	mg/kg (pound pounds) of tantalum ca dated

[49 FR 8817, Mar. 8, 1984, as amended at 50 FR 12253, Mar. 28, 1985]

§ 421.117 [Reserved]

Subpart L—Secondary Silver Subcategory

Source: 49 FR 8821, Mar. 8, 1984, unless otherwise noted.

§ 421.120 Applicability: Description of the secondary silver subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of silver from secondary silver facilities processing photographic and nonphotographic raw materials.

[49 FR 8821, Mar. 8, 1984; 49 FR 26739, June 29, 1984]

$\S 421.121$ Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.122 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Subpart L—Film Stripping.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from film stripping	
Copper	95.670 73.510 6,712.000 2,065.000 (1)	50.350 30.720 2,951.000 981.800 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Subpart L—Film Stripping Wet Air Pollution Control and Precipitation and Filtration of Film Stripping Solutions Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	from precip	ce of silver itation and fil- film stripping
Copper	1.843 1.416	.970 .592
Ammonia (as N)	129.300	56.840
Total suspended solids	39.770	18.920
pH	(1)	(1)

¹Within the range of 7.5 to 10.0 at all times.

(c) Subpart L—Precipitation and Filtration of Film Stripping Solutions.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper	109.400 84.050 7,674.000 2,361.000 (1)	57.570 35.120 3,374.000 1,123.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Subpart L—Precipitation and Filtration of Photographic Solutions.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper	50.540 38.836	26.600 16.226

BPT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N)	3,545.000 1,090.600 (¹)	1,559.000 518.700 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Subpart L—Precipitation and Filtration of Photographic Solutions Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silve from precipitation and fi tration of photographi solutions	
Copper	23.070	12.140
Zinc	17.730	7.406
Ammonia (as N)	1,618.000	711.400
Total suspended solids	497.800	236.800
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Subpart L—Electrolytic Refining.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from electrolytic refining	
Copper Zinc Ammonia (as N)	1.444 1.110 101.300	.760 .464 44.540
Total suspended solidspH	31.160 (¹)	14.820 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Subpart L—Furnace Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver roasted, smelted, or dried	
Copper	1.273 .978 89.310 27.470 (¹)	.670 .409 39.260 13.070

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(h) Subpart L-Leaching.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver produced from leaching	
Copper	.164 .126 11.470 3.526 (¹)	.086 .053 5.040 1.677 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Subpart L—Leaching Wet Air Pollution Control and Precipitation of Nonphotographic Solutions Wet Air Pollution Control.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver pro- duced from leaching or silver precipitated	
Copper	8.417 6.468 590.500 181.700 (¹)	4.430 2.703 259.600 86.390 (¹)

¹Within the range of 7.5 to 10.0 at all times.

(j) Subpart L—Precipitation and Filtration of Nonphotographic Solutions.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper Zinc	5.833 4.482 409.300 125.900 (¹)	3.070 1.873 179.900 59.870 (¹)

¹Within the range of 7.5 to 10.0 at all times.

(k) Subpart L—Floor and Equipment Washdown.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver production	
Copper Zinc Ammonia (as N)	.000 .000 .000	.000 .000

BPT EFFLUENT LIMITATIONS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Total suspended solidspH	.000 (¹)	.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

[49 FR 8821, Mar. 8, 1984, as amended at 49 FR 29795, July 24, 1984]

§ 421.123 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart L—Film Stripping.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from film stripping	
Copper Zinc Ammonia (as N)	64.450 51.360 6,712.000	30.720 21.150 2,951.000

(b) Subpart L—Film Stripping Wet Air Pollution Control and Precipitation and Filtration of Film Stripping Solutions Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ce of silver itation and fil- film stripping
Copper Zinc	1.242 .990 129.300	.592 .408 56.840

(c) Subpart L—Precipitation and Filtration of Film Stripping Solutions.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper	73.690	35.120
Zinc	58.720	24.180
Ammonia (as N)	7,674.000	3,374.000

(d) Subpart L—Precipitation and Filtration of Photographic Solutions.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper Zinc	34.048 27.132 3,545.000	16.226 11.172 1,559.000

(e) Subpart L—Precipitation and Filtration of Photographic Solutions Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 for monthl average	
	mg/troy ounce of silver from precipitation and fil- tration of photographic solutions	
Copper Zinc Ammonia (as N)	15.540 12.380 1,618.000	7.406 5.099 711.400

(f) Subpart L—Electrolytic Refining.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from electrolytic refining	
Copper Zinc	.973 .775 101.300	.464 .319 44.540

(g) Subpart L—Furnace Wet Air Pollution Control.

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BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver roasted, smelted, or dried	
Copper Zinc	.000 .000 .000	.000 .000 .000

(h) Subpart L—Leaching.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver produced from leaching	
Copper Zinc Ammonia (as N)	.110 .088 11.470	.053 .036 5.040

(i) Subpart L—Leaching Wet Air Pollution Control and Precipitation of Nonphotographic Solutions Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver pro duced from leaching o silver precipitated	
Copper Zinc Ammonia (as N)	5.671 4.519 590.500	2.703 1.861 259.600

(j) Subpart L—Precipitation and Filtration of Nonphotographic Solutions.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper Zinc Ammonia (as N)	3.930 3.132 409.300	1.873 1.290 179.900

(k) Subpart L—Floor and Equipment Washdown.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver production	
Copper Zinc Ammonia (as N)	.000 .000 .000	.000 .000 .000

§ 421.124 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Subpart L-Film Stripping.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from film stripping	
Copper	64.450	30.720
Zinc	51.360	21.150
Ammonia (as N)	6,712.000	2,951.000
Total suspended solids	755.300	604.200
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Subpart L—Film Stripping Wet Air Pollution Control and Precipitation and Filtration of Film Stripping Solutions Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silve from precipitation and fi tration of film strippin solutions	
Copper	1.242	.592
Zinc	.990	.408
Ammonia (as N)	129.300	56.840
Total suspended solids	14.550	11.640
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Subpart L—Precipitation and Filtration of Film Stripping Solutions.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper	73.690 58.720	35.120 24.180
Ammonia (as N)	7,674.000	3,374.000
Total suspended solids	863.600	690.900
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Subpart L—Precipitation and Filtration of Photographic Solutions.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper Zinc Ammonia (as N) Total suspended solids	34.048 27.132 3,545.000 399.000	16.226 11.172 1,559.000 319.200
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Subpart L—Precipitation and Filtration of Photographic Solutions Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	from precip	ce of silver itation and fil- photographic
Copper	15.540 12.380 1,618.000 182.100	7.406 5.099 711.400 145.700
pH	182.100 (¹)	145.7

¹ Within the range of 7.5 to 10.0 at all times.

(f) Subpart L—Electrolytic Refining.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from electrolytic refining	
Copper	.973	.464
Zinc	.775	.319
Ammonia (as N)	101.300	44.540
Total suspended solids	11.400	9.120

NSPS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Subpart L—Furnace Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver roasted, smelted, or dried	
Copper	.000 .000 .000 .000	.000 .000 .000 .000

¹ Within the range of 7.5 to 10.0 at all times.

(h) Subpart L-Leaching.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver produced from leaching	
Copper	.110	.053
Zinc	.088	.036
Ammonia (as N)	11.470	5.040
Total suspended solids	1.290	1.032
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Subpart L—Leaching Wet Air Pollution Control and Precipitation of Nonphotographic Solutions Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver pro duced from leaching o silver precipitated	
Copper Zinc	5.671 4.519 590.500 66.450 (¹)	2.703 1.861 259.600 53.160 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Subpart L—Precipitation and Filtration of Nonphotograhic Solutions.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper	3.930	1.873
Zinc	3.132	1.290
Ammonia (as N)	409.300	179.900
Total suspended solids	46.050	36.840
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Subpart L—Floor and Equipment Washdown.

NSPS

Maximum for any 1 day	Maximum for monthly average
mg/troy ounce of silver production	
.000	.000
.000	.000
.000	.000
.000	.000
(1)	(1)
	mg/troy our produ

¹ Within the range of 7.5 to 10.0 at all times.

[49 FR 8821, Mar. 8, 1984, as amended at 49 FR 29795, July 24, 1984]

§ 421.125 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in secondary silver process wastewater introduced into a POTW must not exceed the following values.

(a) Subpart L—Film Stripping.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from film stripping	
Copper Zinc Ammonia (as N)	64.450 51.360 6.712.000	30.720 21.150 2.951.000

(b) Subpart L—Film Stripping Wet Air Pollution Control and Precipitation and Filtration of Film Stripping Solutions Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum Maximum for any 1 for month day average	
	mg/troy ounce of silver from precipitation and fil- tration of film stripping solutions	
Copper Zinc Ammonia (as N)	1.242 .990 129.300	.592 .408 56.840

(c) Subpart L—Precipitation and Filtration of Film Stripping Solutions.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper	73.690 58.720 7,674.000	35.120 24.180 3,374.000

(d) Subpart L—Precipitation and Filtration of Photographic Solutions.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
CopperZinc	34.048 27.132 3,545.000	16.226 11.172 1,559.000

(e) Subpart L—Precipitation and Filtration of Photographic Solutions Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	from precip	ce of silver itation and fil- photographic
CopperZinc	15.540 12.380 1,618.000	7.406 5.099 711.400

(f) Subpart L—Electrolytic Refining.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from electrolytic refining	
Copper	.973	.464
Zinc Ammonia (as N)	.775 101.300	.319 44.540

(g) Subpart L—Furnace Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver roasted, smelted, or dried	
Copper Zinc Ammonia (as N)	.000 .000 .000	.000. 000.

(h) Subpart L—Leaching.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver produced from leaching	
Copper Zinc Ammonia (as N)	.110 .088 11.470	.053 .036 5.040

(i) Subpart L—Leaching Wet Air Pollution Control and Precipitation of Nonphotographic Solutions Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver pro duced from leaching o silver precipitated	
Copper Zinc Ammonia (as N)	5.671 4.519 590.500	2.703 1.861 259.600

(j) Subpart L—Precipitation and Filtration of Nonphotographic Solutions.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper	3.930	1.873
Zinc	3.132	1.290
Ammonia (as N)	409.300	179.900

(k) Subpart L—Floor and Equipment Washdown.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver production	
Copper Zinc Ammonia (as N)	.000 .000 .000	.000 .000 .000

§ 421.126 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary silver process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart L—Film Stripping.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from film stripping	
Copper Zinc Ammonia (as N)	64.450 51.360 6,712.000	30.720 21.150 2,951.000

(b) Subpart L—Film Stripping Wet Air Pollution Control and Precipitation and Filtration of Film Stripping Solutions Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	from precip	ce of silver itation and fil- film stripping
Copper Zinc	1.242 .990 129.300	.592 .408 56.840

(c) Subpart L—Precipitation and Filtration of Film Stripping Solutions.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper Zinc Ammonia (as N)	73.690 58.720 7,674.000	35.120 24.180 3,374.000

(d) Subpart L—Precipitation and Filtration of Photographic Solutions.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
CopperZinc	34.048 27.132 3,545.000	16.226 11.172 1,559.000

(e) Subpart L—Precipitation and Filtration of Photographic Solutions Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	from precip	ce of silver itation and fil- photographic
Copper	15.540 12.380 1,618.000	7.406 5.099 711.400

(f) Subpart L—Electrolytic Refining.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver from electrolytic refining	
Copper	.973	.464
Zinc	.775	.319
Ammonia (as N)	101.300	44.540

(g) Subpart L—Furnace Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver roasted, smelted or dried	
Copper Zinc Ammonia (as N)	.000 .000 .000	.000 .000 .000

(h) Subpart L-Leaching.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver produced from leaching	
Copper Zinc Ammonia (as N)	.110 .088 11.470	.053 .036 5.040

(i) Subpart L—Leaching Wet Air Pollution Control and Precipitation of Nonphotographic Solutions Wet Air Pollution Control.

PSNS

	Maximum for monthly average
	of silver pro-
mg/troy ounce of silver pro duced from leaching of silver precipitated	
5.671	2.703
4.519	1.861
590.500	259.600
	duced from silver precip 5.671 4.519

(j) Subpart L—Precipitation and Filtration of Nonphotographic Solutions.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver precipitated	
Copper Zinc	3.930 3.132 409.300	1.873 1.290 179.900

(k) Subpart L—Floor and Equipment Washdown.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver production	
Copper Zinc	.000 .000 .000	.000 .000 .000

[49 FR 8821, Mar. 8, 1984; 49 FR 26739, June 29, 1984]

§ 421.127 [Reserved]

Subpart M—Secondary Lead Subcategory

Source: 49 FR 8826, Mar. 8, 1984, unless otherwise noted.

§ 421.130 Applicability: Description of the secondary lead subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of lead by secondary lead facilities.

§ 421.131 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.132 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall

achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:
(a) Subpart M—Battery Cracking

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead scrap produced	
Amtimom	1.932	.862
Antimony		
Arsenic	1.407	.579
Lead	.283	.135
Zinc	.983	.411
Ammonia (as N)	.000	.000
Total suspended solids	27.600	13.130
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Subpart M—Blast, Reverberatory, or Rotary Furnace Wet Air Pollution Control

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of lead pro duced from smelting	
Antimony	7.491 5.455 1.096 3.811 .000 107.000 (¹)	3.341 2.245 .522 1.592 .000 50.900 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Subpart M-Kettle Wet Air Pollution Control

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of duced from	of lead pro-
Antimony	.129	.058
Arsenic	.094	.039
Lead	.019	.009
Zinc	.066	.027
Ammonia (as N)	.000	.000
Total suspended solids	1.845	.878
pH	(¹)	(¹)

 $^{^{\}mbox{\scriptsize 1}}\mbox{\ensuremath{\mbox{Within}}}$ the range of 7.5 to 10.0 at all times.

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(d) Subpart M-Lead Paste Desulfurization

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead proc- essed through desulfurization	
Antimony	.000	.000
Arsenic	.000	.000
Lead	.000	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000
рН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Subpart M-Casting Contact Cool-

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f lead cast
Antimony	.634 .462 .093 .323 .000 9.061	.283 .190 .044 .135 .000 4.310
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Subpart M—Truck Wash.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of lead pro- duced from smelting	
Antimon	000	007
Antimony	.060	.027
Arsenic	.044	.018
Lead	.009	.004
Zinc	.031	.013
Ammonia (as N)	.000	.000
Total suspended solids	.861	.410
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Subpart M—Facility Washdown

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) o duced from	of lead pro-
Antimony	.000 .000 .000 .000 .000	.000 .000 .000 .000 .000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Subpart M-Battery Case Classification.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f lead scrap
Andinon	000	000
Antimony	.000	.000
Arsenic	.000	.000
Lead	.000	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(i) Subpart M-Employee Handwash.

BPT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of duced from	of lead pro-
Antimony	.077 .056 .011 .039 .000	.035 .023 .005 .016 .000
рН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Subpart M-Employee Respirator Wash.

BPT EFFULENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of lead pro- smelting
Antimony	.126 .092 .018	.056 .038 .009
Ammonia (as N)	.000 1.804	.000 .858

¹ Within the range of 7.5 to 10.0 at all times.

$(k)\ Subpart\ M{\rm--Laundering}$ of Uniforms.

BPT EFFLUENT LIMITATIONS

	_	
Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of lead pro- smelting
Antimony	.367	.164
Arsenic	.268	.110
Lead	.054	.026
Zinc	.187	.078
Ammonia (as N)	.000	.000
Total suspended solids	5.248	2.496
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

 $[49\ FR\ 8826,\ Mar.\ 8,\ 1984,\ as\ amended\ at\ 49\ FR\ 29795,\ July\ 24,\ 1984]$

§ 421.133 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Subpart M—Battery Cracking.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead scra produced	
Antimony	1.299	.579
Arsenic	.936	.384
Lead	.189	.087
Zinc	.687	.283
Ammonia (as N)	.000	.000

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of lead pro duced from smelting	
Antimony	5.038 3.628 .731 2.662 0.000	2.245 1.488 .339 1.096 0.000

(c) Subpart M—Kettle Wet Air Pollution Control.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of lead pro duced from refining	
Antimony	.087	.039
Arsenic	.063	.026
Lead	.013	.006
Zinc	.046	.019
Ammonia (as N)	.000	.000

 $\begin{array}{ccc} \mbox{(d)} & Subpart & M{\rm -\!Lead} & Paste \\ Desulfurization. & & \end{array}$

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of lead pro essed throug desulfurization	
Antimony	.000	.000

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Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Arsenic	.000	.000
Lead	.000	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000

BAT EFFLUENT LIMITATIONS—Continued

(e) Subpart M—Casting Contact Cooling.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead cast	
Antimony	.042	.019
Arsenic	.031	.013
Lead	.006	.003
Zinc	.022	.009
Ammonia (as N)	.000	.000

(f) Subpart M—Truck Wash.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead pro duced from smelting	
Antimony	.041	.018
Arsenic	.029	.012
Lead	.006	.003
Zinc	.021	.009
Ammonia (as N)	.000	.000

(g) Subpart M—Facility Washdown.

BAT EFFLUENT LIMITATIONS

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of lead pro duced from smelting	
.000 .000 .000 .000	.000 .000 .000 .000
	mg/kg (pound pounds) c duced from

(h) Subpart M-Battery Case Classification.

BAT EFFLUENT LIMITATIONS

Pollutant pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of produced	ds per million f lead scrap
Antimony Arsenic Lead Zinc Ammonia (as N)	.000 .000 .000 .000	.000 .000 .000 .000

(i) Subpart M—Employee Handwash.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of duced from	of lead pro-
Antimony	.052	.023
Arsenic	.038	.015
Lead	.008	.004
Zinc	.028	.011
Ammonia (as N)	.000	.000

(j) Subpart M—Employee Respirator Wash.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead pro duced from smelting	
Antimony	.085	.038
Arsenic	.061	.025
Lead	.012	.006
Zinc	.045	.018
Ammonia (as N)	.000	.000

(k) Subpart M—Laundering of Uniforms.

BAT EFFLUENT LIMITATIONS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of duced from	
Antimony	.247 .178 .036 .131	.110 .073 .017 .054

§ 421.134 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Subpart M—Battery Cracking.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f lead scrap
Antimony	1.299 .936 .189 .687 .000	.579 .384 .087 .283 .000 8.076

¹ Within the range of 7.5 to 10.0 at all times.

(b) Subpart M—Blast, Reverberatory, or Rotary Furnace Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead produced from smelting	
Antimony	5.038	2.245
Arsenic	3.628	1.488
Lead	.731	.339
Zinc	2.662	1.096
Ammonia (as N)	0.000	0.000
Total suspended solids	39.150	31.320
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Subpart M—Kettle Wet Air Pollution Control.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of duced from	
Antimony Arsenic Lead Zinc Ammonia (as N) Total suspended solids pH	.000 .000 .000 .000 .000 .000	.000 .000 .000 .000 .000 .000

¹ Within the range of 7.5 to 10.0 at all times.

$\begin{array}{ccc} \mbox{(d)} & \mbox{Subpart} & \mbox{M-Lead} & \mbox{Paste} \\ \mbox{Desulfurization.} & \end{array}$

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead proc essed through desulfurization	
Antimony	.000	.000
Arsenic	.000	.000
Lead	.000	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Subpart M—Casting Contact Cooling.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) o	ds per million f lead cast
Antimony	.042 .031	.019 .013
LeadZinc	.006 .022	.003
Ammonia (as N)	.000	.000
Total suspended solids	.330	.264
pH	(1)	(1)

 $^{^{\}mbox{\scriptsize 1}}\mbox{\ensuremath{\mbox{Within}}}$ the range of 7.5 to 10.0 at all times.

(f) Subpart M—Truck Wash.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead pro duced from smelting	
Antimony	.041	.018
Arsenic	.029	.012
Lead	.006	.003
Zinc	.021	.009
Ammonia (as N)	.000	.000
Total suspended solids	.315	.252
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Subpart M—Facility Washdown.

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NSPS

Dellistent on rellistent near sets	Maximum Maximum	
Pollutant or pollutant property	for any 1	for monthly average
	,	
	mg/kg (pounds per millio pounds) of lead pro	
	duced from	smelting
Antimony	.000	.000
Arsenic	.000	.000
Lead	.000	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Subpart M-Battery Case Classification.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead scrap produced	
Antimony	.000	.000
Arsenic	.000	.000
Lead	.000	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000
Total suspended solids	.000	.000
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Subpart M—Employee Handwash.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) o duced from	f lead pro-
Antimony	.052 .038 .008 .028 .000 .405	.023 .015 .004 .011 .000 .324

¹ Within the range of 7.5 to 10.0 at all times.

(j) Subpart M—Employee Respirator Wash.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead pro- duced from smelting	
Antimony	.085 .061 .012 .045	.038 .025 .006 .018
Ammonia (as N)	.000	.000
Total suspended solids	.660	.528
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Subpart M—Laundering of Uniforms.

NSPS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead pro- duced from smelting	
Antimony	.247	.110
Antimony		
Arsenic	.178	.073
Lead	.036	.017
Zinc	.131	.054
Ammonia (as N)	.000	.000
Total suspended solids	1.920	1.536
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

 $[49\ FR\ 8826,\ Mar.\ 8,\ 1984,\ as\ amended\ at\ 49\ FR\ 29795,\ July\ 24,\ 1984]$

\$421.135 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in secondary lead process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart M—Battery Cracking.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of lead scra produced	
Antimony	1.299	.579
Arsenic	.936	.384
Lead	.189	.087
Zinc	.687	.283
Ammonia (as N)	.000	.000

(b) Subpart M—Blast, Reverberatory, or Rotary Furnace Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead pro duced from smelting	
Antimony	5.038	2.245
Arsenic	3.628	1.488
Lead	.731	.339
Zinc	2.662	1.096
Ammonia (as N)	.000	.000

(c) Subpart M—Kettle Wet Air Pollution Control.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead pro duced from refining	
Antimony	.087	.039
Arsenic	.063	.026
Lead	.013	.006
Zinc	.046	.019
Ammonia (as N)	.000	.000

(d) Subpart M—Lead Paste Desulfurization.

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PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead proc- essed through desulfurization	
Antimony Arsenic Lead Zinc Ammonia (as N)	.000 .000 .000 .000	.000 .000 .000 .000

(e) Subpart M—Casting Contact Cooling.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead cast	
Animony Arsenic Lead Zinc Ammonia (as N)	.042 .031 .006 .022 .000	.019 .013 .003 .009

(f) Subpart M—Truck Wash.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of lead pro duced from smelting	
Antimony	.041 .029 .006 .021	.018 .012 .003 .009

(g) Subpart M—Facility Washdown.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead pro duced from smelting	
Antimony	.000 .000 .000 .000	.000 .000 .000 .000

(h) Subpart M-Battery Case Classification.

PSES

Maximum for any 1 day	Maximum for monthly average
	ds per million f lead scrap
.000 .000 .000 .000	.000 .000 .000 .000
	mg/kg (pound pounds) of produced .000 .000 .000 .000

(i) Subpart M—Employee Handwash.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead pro duced from smelting	
Antimony Arsenic Lead Zinc Ammonia (as N)	.052 .038 .008 .028 .000	.023 .015 .004 .011
Allillollia (as IN)	.000	.00

(j) Subpart M—Employee Respirator Wash.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of lead pro- duced from smelting	
Antimony	.085 .061 .012 .045	.038 .025 .006 .018

(k) Subpart M—Laundering of Uniforms.

PSES

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of lead pro- duced from smelting	
Antimony	.247	.110
Lead	.036	.017
Zinc	.131	.054
Ammonia (as N)	.000	.000

§ 421.136 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary lead process wastewater introduced into a POTW shall not exceed the following values:

(a) Subpart M—Battery Cracking.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of produced	ds per million f lead scrap
Antimony	1.299 .936 .189 .687	.579 .384 .087 .283

(b) Subpart M—Blast, Reverberatory, or Rotary Furnace Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead pro- duced from smelting	
Antimony	5.038 3.628 .731 2.662 .000	2.245 1.488 .339 1.096 .000

(c) Subpart M—Kettle Wet Air Pollution Control.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead pro duced from refining	
Antimony	.000 .000 .000 .000	.000 .000 .000 .000

$\begin{array}{ll} \mbox{(d)} & \mbox{Subpart} & \mbox{M-Lead} & \mbox{Paste} \\ \mbox{Desulfurization.} & \end{array}$

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead proc essed through desulfurization	
Antimony	.000	.000
Arsenic	.000	.000
Lead	.000	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000

(e) Subpart M—Casting Contact Cooling.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead cast	
Antimony	.042 .031	.019
Lead	.006	.003
Zinc	.022	.009
Zinc Ammonia (as N)	.022 .000	.009

(f) Subpart M—Truck Wash.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead pro- duced from smelting	
Antimony	.041 .029 .006 .021	.018 .012 .003 .009

(g) Subpart M—Facility Washdown.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead pro- duced from smelting	
Antimony	.000	.000
Arsenic	.000	.000
Lead	.000	.000
Zinc	.000	.000

PSNS—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N)	.000	.000

(h) Subpart M-Battery Case Classification.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of lead scra produced	
Antimony	.000	.000
Lead	.000	.000
Zinc	.000	.000
Ammonia (as N)	.000	.000

$(i) \ Subpart \ M--Employee \ Handwash.$

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of lead pro duced from smelting	
Antimony	.052 .038 .008 .028 .000	.023 .015 .004 .011

(j) Subpart M—Employee Respirator Wash.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead pro- duced from smelting	
Antimony Arsenic Lead Zinc Ammonia (as N)	.085 .061 .012 .045	.038 .025 .006 .018

(k) Subpart M—Laundering of Uniforms.

PSNS

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of lead pro- duced from smelting	
Antimony	.247	.110
Arsenic	.178	.073
Lead	.036	.017
Zinc	.131	.054
Ammonia (as N)	.000	.000

§421.137 [Reserved]

Subpart N—Primary Antimony Subcategory

Source: $50 \ FR \ 38345$, Sept. $20, \ 1985$, unless otherwise noted.

§ 421.140 Applicability: Description of the primary antimony subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of antimony at primary antimony facilities.

§421.141 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.142 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available:

(a) Sodium Antimonate Autoclave Wastewater.

BPT LIMITATIONS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of antimony con- tained in sodium antimonate product	
Antimony	44.840 32.650 3.906 640.600 (¹)	20.000 14.530 1.562 304.700 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Fouled anolyte.

BPT LIMITATIONS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of a	ls per million antimony metal electrowinning
Antimony	44.840 32.650 3.906 640.600 (¹)	20.000 14.530 1.562 304.700 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Cathode Antimony Wash Water.

BPT LIMITATIONS FOR THE PRIMARY ANTIMONY SUBCATEGORY

CODONIEGONI		
Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of antimony meta produced by electrowinning	
Antimony	89.680 65.310 7.812 1,281.000 (¹)	40.000 29.060 3.125 609.300 (1)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.143 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limita-

tions representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Sodium Antimonate Autoclave Wastewater.

BAT LIMITATIONS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of antimony cor tained in sodium antimo nate product	
Antimony	30.150 21.720	13.440 9.687
Mercury	2.344	0.937

(b) Fouled Anolyte.

BAT LIMITATIONS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg pounds per million pounds of antimony meta produced by electrowinning	
Antimony	30.150 21.720	13.440 9.687
Mercury	2.344	0.937

(c) Cathode Antimony Wash Water

BAT LIMITATIONS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant of pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of antimony meta produced by electrowinning	
Antimony	60.310 43.430 4.687	26.870 19.370 1.875

§ 421.144 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Sodium Antimonate Autoclave Wastewater.

NSPS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of antimony contained in sodium antimonate product	
Antimony	30.150 21.720	13.440 9.687
Mercury	2.344	0.937
Total suspended solids	234.400	187.500
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Fouled Anolyte.

NSPS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of antimony metal produced by electrowinning	
30.150 21.720 2.344 234.400	13.440 9.687 0.937 187.500
	mg/kg (pound pounds) metal prelectrowinn 30.150 21.720 2.344

¹ Within the range of 7.5 to 10.0 at all times.

(c) Cathode Antimony Wash Water.

NSPS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of antimony metal produced by electrowinning	
Antimony Arsenic Mercury Total suspended solids PH	60.310 43.430 4.687 468.700 (¹)	26.870 19.370 1.875 375.000 (¹)

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

§ 421.145 [Reserved]

§421.146 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and

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achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary antimony process wastewater introduced into a POTW shall not exceed the following values:

(a) Sodium Antimonate Autoclave Wastewater.

PSNS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of antimony con- tained in sodium antimonate product	
Antimony Arsenic Mercury	30.150 21.720 2.344	13.440 9.687 0.937

(b) Fouled Anolyte.

PSNS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of antimony meta produced by electrowinning	
Antimony Arsenic Mercury	30.150 21.720 2.344	13.440 9.687 0.937

(c) Cathode Antimony Washwater.

PSNS FOR THE PRIMARY ANTIMONY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of antimony meta produced by electrowinning	
Antimony Arsenic Mercury	60.310 43.430 4.687	26.870 19.370 1.875

§421.147 [Reserved]

Subpart O—Primary Beryllium Subcategory

Source: $50~\mathrm{FR}$ 38346, Sept. 20, 1985, unless otherwise noted.

§ 421.150 Applicability: Description of the primary beryllium subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of beryllium by primary beryllium facilities processing beryllium ore concentrates or beryllium hydroxide raw materials.

§ 421.151 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.152 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Solvent Extraction Raffinate from Bertrandite Ore.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of beryllium car- bonate produced from bertrandite ore as beryllium	
Beryllium	2.763.000	1.235.000
Chromium (total)	988.200	404.300
Copper	4,267.000	2.246.000
Cyanide (total)	651.300	269.500
Ammonia (as N)	299,400.000	131,600.000
Fluoride	78,610.000	44,700.000
Total suspended solids	92,090.000	43,800.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times

(b) Solvent Extraction Raffinate from Beryl Ore.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

laximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of beryllium car- bonate produced from beryl ore as beryllium	
270.6 96.8 418.0 63.8 29,330.0 7,700.0 9,020.0	121.0 39.6 220.0 26.4 12,890.0 4,378.0 4,290.0
	96.8 418.0 63.8 29,330.0 7,700.0

¹ Within the range of 7.5 to 10.0 at all times.

(c) Beryllium Carbonate Filtrate.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of beryllium ca bonate produced as bery lium	
Beryllium Chromium (total) Copper Cyanide (total) Ammonia (as N) Fluoride Total suspended pH	263.800 94.380 407.600 62.210 28,590.000 7,508.000 8,795.000	118.000 38.610 214.500 25.7000 12,570.000 4,269.000 4,183.000

¹ Within the range of 7.5 to 10.0 at all times.

(d) Beryllium Hydroxide Filtrate.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium hy- droxide produced as beryl- lium	
Beryllium	167.280	74.800
Chromium (Total)	59.840	24.480
Copper	258.400	136.000
Cyanide (Total)	39.440	16.320
Ammonia (as N)	18128.800	7969.600
Fluoride	4760.000	2706.400
Total Suspended Solids	5576.000	2652.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Beryllium Oxide Calcining Furnace Wet Air Pollution Control.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium oxide produced	
Dam ditara	204.000	4.45.000
Beryllium	324.000	145.000
Chromium (total)	116.000	47.470
Copper	501.000	263.700
Cyanide (total)	76.470	31.640
Ammonia (as N)	35,150.000	15,450.000
Fluoride	9,230.000	5,248.000
Total suspended solids	10,810.000	5,142.000
pH	(¹)	(¹)

 $^{^{\}mbox{\scriptsize 1}}\mbox{\ensuremath{\mbox{Within}}}$ the range of 7.5 to 10.0 at all times.

(f) Beryllium hydroxide supernatant.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium hy- droxide produced from scrap and residues as beryllium	
Beryllium	282.9	126.5
Chromium (total)	101.2	41.4
Copper	437.0	230.0
Cyanide (total)	66.7	27.6
Ammonia (as N)	30,660.0	13,480.0
Fluoride	160,308.0	71,201.0
Total suspended solids	9,430.0	4,485.0
pH	(1)	(1)

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(g) Process water.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) pebbles pro	of beryllium
Beryllium Chromium (total) Copper Cyanide (total) Ammonia (as N) Fluoride Total suspended solids pH	215.00 76.91 332.10 50.69 23,300.00 6,118.00 7,167.00	96.14 31.46 174.80 20.98 10,240.00 3,479.00 3,409.00

¹ Within the range of 7.5 to 10.0 at all times.

(h) Fluoride furnace scrubber.

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BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryllium oduced
Beryllium	0.000	0.000
Chromium (total)	0.000	0.000
Copper	0.000	0.000
Cyanide (total)	0.000	0.000
Ammonia (as N)	0.000	0.000
Fluoride	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Chip treatment wastewater.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) scrap chips	of beryllium
Beryllium	9.533 3.410 14.730 2.248	4.263 1.395 7.750 0.930
Ammonia (as N)	1,033.000 271.300 317.800 (1)	454.200 154.200 151.100

¹ Within the range of 7.5 to 10.0 at all times.

(j) Beryllium Pebble Plant Area Vent Wet Air Pollution Control.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryllium oduced
Beryllium Chromium (total) Copper Cyanide (total) Ammonia (as N) Fluoride Total suspended solids pH	0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(k) Beryl Ore Gangue Dewatering.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of t essed	s per million peryl ore proc-
Beryllium Chromium (Total) Copper Cyanide (Total) Ammonia (as N) Fluoride Total Suspended Solids pH	1.283 0.459 1.982 0.302 139.032 36.505 42.763	0.574 0.188 1.043 0.125 61.120 20.756 20.339

¹ Within the range of 7.5 to 10.0 at all times.

(l) Bertrandite Ore Gangue Dewatering.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million bertrandite ore
Beryllium	3.279 1.173 5.064 0.773 355.245 93.275	1.466 0.480 2.665 0.320 156.169 53.034
Total Suspended SolidspH	109.265 (¹)	51.968 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(m) Beryl Ore Processing.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million beryl ore proc-
Populium	8.983	4.017
Beryllium		
Chromium (Total)	3.213	1.315
Copper	13.876	7.303
Cyanide (Total)	2.118	0.876
Ammonia (as N)	973.490	427.956
Fluoride	255.605	145.330
Total Suspended Solids	299.423	142.409
pH	(¹)	(¹)

 $^{^{\}mbox{\scriptsize 1}}\mbox{\ensuremath{\mbox{Within}}}$ the range of 7.5 to 10.0 at all times.

(n) Aluminum Iron Sludge (AIS) Area Wastewater.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of total beryllium carbonate produced as be- ryllium	
Beryllium	575.640	257.400
Chromium (Total)	205.920	84.240
	889.200	468.000
Copper	135.720	56.160
Cyanide (Total)		
Ammonia (as N)	62384.400	27424.800
Fluoride	16380.000	9313.200
Total Suspended Solids	19188.000	9126.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(o) Bertrandite Ore Leaching Scrubber.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of bertrandite ore processed	
Beryllium Chromium (Total) Copper Cyanide (Total) Ammonia (as N) Fluoride Total Suspended Solids pH	1.859 0.665 2.871 0.438 201.416 52.885 61.951 (¹)	0.831 0.272 1.511 0.181 88.545 30.069 29.465

¹ Within the range of 7.5 to 10.0 at all times.

(p) Bertrandite Ore Countercurrent and Decantation (CCD) Scrubber.

BPT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of bertrandite ore processed	
Beryllium	0.124	0.056
Chromium (Total)	0.044	0.018
Copper	0.192	0.101
Cyanide (Total)	0.029	0.012
Ammonia (as Ń)	13.463	5.919
Fluoride	3.535	2.010
Total Suspended Solids	4.141	1.970
pH	(¹)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

[50 FR 38346, Sept. 20, 1985, as amended at 55 FR 31697, Aug. 3, 1990; 55 FR 36932, Sept. 7, 1990]

§ 421.153 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Solvent extraction raffinate from bertrandite ore.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium car- bonate produced from bertrandite ore as beryl- lium	
Beryllium	1,842.000 831.000 2,875.000 449.200 299,400.000 78,610.000	831.000 336.900 1,370.000 179.700 131,600.000 44,700.000

(b) Solvent extraction raffinate from beryl ore.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day Maximum average	
	mg/kg (pounds per million pounds) of beryllium car- bonate produced from beryl ore as beryllium	
Beryllium	180.4 81.4 281.6 44.0 29,330.0 7,700.0	81.4 33.0 134.2 17.6 12,890.0 4,378.0

(c) Beryllium carbonate filtrate.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million beryllium car- duced as be-
Beryllium	175.900	79.370
Chromium (total)	79.370	32.180
Copper	274.600	130.800
Cyanide (total)	42.900	17.160
Ammonia (as N)	28,590.000	12,570.000
Fluoride	7,508.000	4,269.000

(d) Beryllium Hydroxide Filtrate.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of beryllium hy droxide produced as be ryllium	
Beryllium	111.520	50.320
Chromium (Total)	50.320	20.400
Copper	174.080	82.960
Cyanide (Total)	27.200	10.880
Ammonia (as N)	18128.800	7969.600
Fluoride	4760.000	2706.400

(e) Beryllium oxide calcining furnace wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium oxide produced	
Beryllium Chromium (total) Copper Cyanide (total) Ammonia (as N) Fluoride	216.20 97.57 337.50 52.74 35,150.00 9,230.00	97.57 39.56 160.90 21.10 15,450.00 5,248.00

(f) Beryllium hydroxide supernatant.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium hy- droxide produced from scrap and residues as beryllium	
Beryllium	188.6	85.1
Chromium (total)	85.1	34.5
Copper	294.4	140.3
Cyanide (total)	46.0	18.4
Ammonia (as N)	30,660.0	13,480.0
Fluoride	160,308.0	71,201.0

(g) Process water.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of beryllium pebbles produced	
Beryllium	143.30	64.68
Chromium (total)	64.68	26.22
Copper	223.70	106.60
Cyanide (total)	34.96	13.98
Ammonia (as N)	23,300.00	10,240.00
Fluoride	6,118.00	3,479.00

(h) Fluoride furnace scrubber.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium pebbles produced	
Beryllium	0.000	0.000
,		
Chromium (total)	0.000	0.000
Copper	0.000	0.000
Cyanide (total)	0.000	0.000
Ammonia (as N)	0.000	0.000
Fluoride	0.000	0.000

(i) Chip treatment wastewater.

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BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of berylliur scrap chips treated	
Beryllium	6.355	2.868
Chromium (total)	2.868	1.163
Copper	9.920	4.728
Cyanide (total)	1.550	0.620
Ammonia (as N)	1,033.000	454.200
Fluoride	271.300	154.200

(j) Beryllium pebble plant area vent wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of beryllium pebbles produced	
0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000
	mg/kg (pound pounds) pebbles pro

(k) Beryl Ore Gangue Dewatering.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryl ore
Beryllium	0.855 0.386 1.335 0.209 139.032 36.505	0.386 0.156 0.636 0.083 61.120 20.756

(l) Bertrandite Ore Gangue Dewatering.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

	Maximum Maximur	
Pollutant or pollutant property	for any 1	for monthly
	day	average
	mg/kg (pounds per million	
	pounds) of bertrandite	
	ore processed	
	ore processed	
Beryllium	2.185	0.986
•		
Chromium (Total)	0.986	0.400
Copper	3.411	1.626
Cyanide (Total)	0.533	0.213
Ammonia (as N)	355.245	156.169
Fluoride	93.275	53.034

(m) Beryl Ore Processing.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryl ore processed	
Beryllium	5.988	2.702
Chromium (Total) Copper	2.702 9.348	1.095 4.455
Cyanide (Total)	1.461	0.584
Ammonia (as N)	973.490	427.956
Fluoride	255.605	145.330

(n) Alumium Iron Sludge (AIS) Area Wastewater.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of total berylliur carbonate produced a beryllium	
Beryllium	383.760	173.160
Chromium (Total)	173.160	70.200
Copper	599.040	285.480
Cyanide (Total)	93.600	37.440
Ammonia (as N)	62384.400	27424.800
Fluoride	16380.000	9313.200

(o) Bertrandite Ore Leaching Scrubber.

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BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of bertrandite ore processed	
Beryllium	1.239 0.559 1.934 0.302 201.416 52.885	0.559 0.227 0.922 0.121 88.545 30.069

(p) Bertrandite Ore Countercurrent and Decantation (CCD) Scrubber.

BAT LIMITATIONS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of bertrandite ore processed	
Beryllium	0.083 0.037 0.129 0.020 13.463 3.535	0.037 0.015 0.062 0.008 5.919 2.010

[50 FR 38346, Sept. 20, 1985, as amended at 55 FR 31698, Aug. 3, 1990]

§ 421.154 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Solvent extraction raffinate from bertrandite ore.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds million pounds) of beryllium car- bonate produced from bertrandite ore as beryl- lium	
Beryllium	1,842.000	831.000
Chromium (total)	831.000	336.900
Copper	2,875.000	1,370.000
Cyanide (total)	449.200	179.700
Ammonia (as N)	299,400.000	131,600.000
Fluoride	78,610.000	44,700.000
Total Suspended solids	33,690.000	26,950.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Solvent extraction raffinate from beryl ore.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium car bonate produced fron beryl ore as beryllium	
Beryllium	180.4 81.4 281.6 44.0	81.4 33.0 134.2
Ammonia (as N) Fluoride Total Suspended solids	29,330.0 7,700.0 3,300.0 (1)	12,890.0 4,378.0 2,640.0 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Beryllium carbonate filtrate.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of beryllium car bonate produced as be ryllium	
Beryllium Chromium (total) Copper Cyanide (total) Ammonia (as N) Fluoride Total Suspended solids pH	175.900 79.370 274.600 42.900 28,590.000 7,508.000 3,218.000 (1)	79.370 32.180 130.800 17.160 12,579.000 4,269.000 2,574.000 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Beryllium hydroxide filtrate.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million beryllium hy- duced as be-
Beryllium	111.520 50.320 174.080 27.200 18128.800 4760.000 2040.000	50.320 20.400 82.960 10.880 7969.600 2706.400 1632.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Beryllium oxide calcining furnace wet air pollution control.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryllium iced
Beryllium	216.20 95.57 337.50 52.74 35,150.00 9,230.00 3,956.00 (¹)	97.57 39.56 160.90 21.10 15,450.00 5,248.00 3,164.00

¹ Within the range of 7.5 to 10.0 at all times.

(f) Beryllium hydroxide supernatant.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of droxide pr	ds per million beryllium hy- oduced from residues as
Beryllium	188.6	85.1
Chromium (total)	85.1	34.5
Copper	294.4	140.3
Cyanide (total)	46.0	18.4
Ammonia (as N)	30,660.0	13,480.0
Fluoride	160,308.0	71,201.0
Total Suspended solids	3,450.0	2,760.0
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Process water.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryllium oduced
Beryllium	143.30 64.68 223.70 34.96 23,300.00 6,118.00 2,622.00 (¹)	64.68 26.22 106.60 13.98 10,240.00 3,479.00 2,098.00 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Fluoride furnace scrubber.

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NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property for control of the pollutant or pollutant property for control of the pollutant or pollutant property for control of the pollutant property for control		
Beryllium	ximum any 1 day	Maximum for monthly average
Chromium (total)		ds per million of beryllium oduced
Total suspended solidspH	0.000 0.000 0.000 0.000 0.000 0.000 0.000 (1)	0.000 0.000 0.000 0.000 0.000 0.000 0.000 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Chip treatment wastewater.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) scrap chips	of beryllium
Beryllium	6.355	2.868
Chromium (total)	2.868	1.163
Copper	9.920	4.728
Cyanide (total)	1.550	0.620
Ammonia (as N)	1,033.000	454.200
Fluoride	271.300	154.200
Total suspended solids	116.300	93.000
pH	(1)	(1)

 $^{^{\}mbox{\tiny 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(j) Beryllium pebble plant area vent wet air pollution control.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of berylliur pebbles produced	
Beryllium	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000
Fluoride	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Beryl Ore Gangue Dewatering.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryl ore
Beryllium	0.855 0.386 1.335	0.386 0.156 0.636
Cyanide (Total)	0.209 139.032	0.083 61.120
Fluoride	36.505	20.756
Total Suspended SolidspH	15.645 (¹)	12.516 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(l) Bertrandite Ore Gangue Dewatering.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of bertrandite sed
Beryllium	2.185 0.986 3.411 0.533 355.245 93.275	0.986 0.400 1.626 0.213 156.169 53.034
Total Suspended SolidspH	39.975 (¹)	31.980 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(m) Beryl Ore Processing.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of beryl ore
Beryllium	5.988	2,702
Chromium (Total)	2,702	1.095
Copper	9.348	4.455
Cyanide (Total)	1.461	0.584
Ammonia (as N)	973.490	427.956
Fluoride	255.605	145.330
Total Suspended Solids	109.545	87.636
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(n) Aluminum Iron Sludge (AIS) Area Wastewater.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million total beryllium produced as
Beryllium	383.760	173.160
Chromium (Total)	173.160	70.200
Copper	599.040	285.480
Cyanide (Total)	93.600	37.440
Ammonia (as N)	62384.400	27424.800
Fluoride	16380.000	9313.200
Total Suspended Solids	7020.000	5616.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(o) Bertrandite Ore Leaching Scrubber.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of bertrandite ore processed	
Beryllium	1.239	0.559
Chromium (Total)	0.559	0.227
Copper	1.934	0.922
Cyanide (Total)	0.302	0.121
Ammonia (as N)	201.416	88.545
Fluoride	52.885	30.069
Total Suspended Solids	22.665	18.132
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(p) Bertrandite Ore Countercurrent and Decantation (CCD) Scrubber.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of be proce	rtrandite ore
Beryllium	0.083 0.037 0.129 0.020 13.463 3.535 1.515	0.037 0.015 0.062 0.008 5.919 2.010 1.212

¹ Within the range of 7.5 to 10.0 at all times.

 $[50\ FR\ 38346,\ Sept.\ 20,\ 1985,\ as\ amended\ at\ 55\ FR\ 31699,\ Aug.\ 3,\ 1990]$

§421.155 [Reserved]

§ 421.156 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary beryllium process wastewater introduced into a POTW shall not exceed the following values:

(a) Solvent extraction raffinate from bertrandite ore.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium car bonate produced fron bertrandite ore as beryl lium	
Beryllium	1,842.000	831.000
Chromium (total)	831.000	336.900
Copper	2,875.000	1,370.000
Cyanide (total)	449.200	179.700
Ammonia (as N)	299,400.000	131.600.000
Fluoride	78,610.000	44,700.000

(b) Solvent extraction raffinate from beryl ore.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium car- bonate produced from beryl ore as beryllium	
Beryllium	180.4	81.4
Chromium (total)	81.4	33.0
Copper	281.6	134.2
Cyanide (total)	44.0	17.6
Ammonia (as N)	29.330.0	12,890.0
Fluoride	7,700.0	4,378.0

(c) Beryllium carbonate filtrate.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium car bonate produced as be ryllium	
Beryllium	175.900	79.370
Chromium (total)	79.370	32.180
Copper	274.600	130.800
Cyanide (total)	42.900	17.160
Ammonia (as N)	28,590.000	12,570.000
Fluoride	7,508.000	4,269,000

$\hbox{(d) Beryllium Hydroxide Filtrate}.\\$

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium hy- droxide produced as be- ryllium	
Beryllium	111.510	50.320
Chromium (Total)	50.320	20.400
Copper	174.080	82.960
Cyanide (Total)	27.200	10.880
Ammonia (as N)	18128.800	7969.600
Fluoride	4760.000	2706.400

(e) Beryllium oxide calcining furnace wet air pollution control.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of beryllium oxide produced	
Beryllium	216.20	97.57
Chromium (total)	97.57	39.56
Copper	337.50	160.90
Cyanide (total)	52.74	21.10
Ammonia (as N)	35,150.00	15,450.00
Fluoride	9,230.00	5,248.00

(f) Beryllium hydroxide supernatant

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PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium hy- droxide produced from scrap and residues as beryllium	
Beryllium	188.6	85.1
Chromium (total)	85.1	34.5
Copper	294.4	140.3
Cyanide (total)	46.0	18.4
Ammonia (as N)	30,660.0	13,480.0
Flouride	160,308.0	71,201.0

(g) Process water.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg pounds per million pounds of beryllium peb bles produced	
Beryllium Chromium (total) Copper Cyanide (total) Ammonia (as N) Fluoride	143.30 64.68 223.70 34.96 23,300.00 6,118.00	64.68 26.22 106.60 13.98 10,240.00 3,479.00

(h) Fluoride furnace scrubber.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg pounds per millio pounds of beryllium pet bles produced	
Beryllium	0.000	0.000
Chromium (total)	0.000	0.000
Cyanide (total)	0.000	0.000
Ammonia (as N)	0.000	0.000
Fluoride	0.000	0.000

(i) Chip treatment wastewater.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg pounds per million pounds of beryllium scrap chips treated	
Beryllium	6.355	2.868
Chromium (total)	2.868	1.163
Copper	9.920	4.728
Cyanide (total)	1.550	0.620
Ammonia (as N)	1,033.000	454.200
Fluoride	271.300	154.200

(j) Beryllium pebble plant area vent wet air pollution control

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum Maximur for any 1 for month average	
	mg/kg pounds per million pounds of beryllium peb bles produced	
Beryllium	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000

(k) Beryl Ore Gangue Dewatering.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of processed	ds per million of beryl ore
Beryllium	0.855	0.386
Chromium (Total)	0.386	0.156
Copper	1.335	0.636
Cyanide (Total)	0.209	0.083
Ammonia (as N)	139.032	61.120
Flouride	36.505	20.756

(l) Bertrandite Ore Gangue Dewatering.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of bertrandit ore processed	
Beryllium	2.185 0.986 3.411 0.533 355.245 93.275	0.986 0.400 1.626 0.213 156.169 53.034

(m) Beryl Ore Processing.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of processed	ds per million of beryl ore
Beryllium	5.988	2.702
Chromium (Total)	2.702	1.095
Copper	9.348	4.455
Cyanide (Total)	1.461	0.584
Ammonia (as N)	973.490	427.956
Flouride	255.605	145.330

(n) Aluminum Iron Sludge (AIS) Area Wastewater.

PSNS FOR THE PRIMARY BERRYLLIUM SUBCATEGORY

Chromium (Total) 173.160 70.200 Copper 599.040 285.480 Cyanide (Total) 93.600 37.440 Ammonia (as N) 62384.400 27424.800			
Beryllium	Pollutant or pollutant property	for any 1	for monthly
Chromium (Total) 173.160 70.200 Copper 599.040 285.480 Cyanide (Total) 93.600 37.440 Ammonia (as N) 62384.400 27424.800		pounds) of total berylliu carbonate produced	
Chromium (Total) 173.160 70.200 Copper 599.040 285.480 Cyanide (Total) 93.600 37.440 Ammonia (as N) 62384.400 27424.800	Bervllium	383.760	173.160
Copper 599.040 285.480 Cyanide (Total) 93.600 37.440 Ammonia (as N) 62384.400 27424.800		173.160	70.200
Cyanide (Total) 93.600 37.440 Ammonia (as N) 62384.400 27424.800		599.040	285.480
` '		93.600	37.440
Fluoride	Ammonia (as N)	62384.400	27424.800
	Fluoride	16380.000	9313.200

(o) Bertrandite Ore Leaching Scrubber

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day Maximum average	
	mg/kg of bertrandite ore processed	
Beryllium	1.239 0.559 1.934 0.302 201.416 52.885	0.559 0.227 0.922 0.121 88.545 30.069

(p) Bertrandite Ore Countercurrent and Decantation (CCD) Scrubber.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of bertrandite ore processed	
Beryllium	0.083 0.037 0.129 0.020 13.463 3.535	0.037 0.015 0.062 0.008 5.919 2.010

[50 FR 38346, Sept. 20, 1985, as amended at 55 FR 31700, Aug. 3, 1990]

§421.157 [Reserved]

Subpart P—Primary and Secondary Germanium and Gallium Subcategory

Source: 50 FR 38350, Sept. 20, 1985, unless otherwise noted.

§ 421.180 Applicability: Description of the primary and secondary germanium and gallium subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of germanium or gallium from primary and secondary germanium and gallium facilities.

§421.181 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations and

methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.182 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Still liquor.

BPT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of germaniu chlorinated	
Arsenic	131.700 26.460 91.980 2,205.000 2,583.000	58.590 12.600 38.430 1,254.000 1,229.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Chlorinator wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of germaniur chlorinated	
Arsenic	27.530	12.250
Lead	5.531	2.634
Zinc	19.230	8.034
Fluoride	461.000	262.100
Total suspended solids	540.000	256.800
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

⁽c) Germanium hydrolysis filtrate.

BPT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of germanium hydrolyzed	
Arsenic Lead Zinc	39.440 7.925 27.550	17.550 3.774 11.510
Fluoride Total suspended solidspH	660.500 773.700 (¹)	375.500 368.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Acid wash and rinse water.

BPT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germanium washed	
Arsenic	325,500	144.800
Lead	65.400	31.140
Zinc	227.400	94.990
Fluoride	5.450.000	3.099.000
Total suspended solids	6.385.000	3.037.000
pH	(1)	(1)

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(e) Gallium hydrolysis filtrate.

BPT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per milli pounds) of galliu hydrolyzed	
Arsenic	70.450 14.160 49.220 1,180.000	31.350 6.742 20.560 670.800
Total suspended solidspH	1,382.000 (¹)	657.300

¹ Within the range of 7.5 to 10.0 at all times.

(f) Solvent extraction raffinate.

BPT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of gallium pro- duced by solvent extrac- tion	
Arsenic	39.330	17.500
Lead	7.904	3.764
Zinc	27.480	11.480
Fluoride	658.700	374.500
Total suspended solids	771.600	367.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.183 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Still liquor.

BAT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germanium chlorinated	
Arsenic	131.700	58.590
Lead	26.460	12.600
Zinc	91.980	38.430
Fluoride	2,205.000	1,254.000

⁽b) Chlorinator wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly
	mg/kg (pound	average ds per million f germanium
Arsenic	27.530 5.531	12.250 2.634
ZincFluoride	19.230 461.000	8.034 262.100

(c) Germanium hydrolysis filtrate.

BAT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per millior pounds) of germanium hydrolyzed	
39.440 7.925 27.550 660.500	17.550 3.774 11.510 375.500
	mg/kg (pound pounds) o hydrolyzed 39.440 7.925 27.550

(d) Acid wash and rinse water.

BAT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germaniun washed	
Arsenic	325.50 65.40	144.80 31.14
ZincFluoride	227.40 5,450.00	94.99 3,099.00

(e) Gallium hydrolysis filtrate.

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BAT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million f germanium
ArsenicLead	70.450	31.350
	14.160	6.742
Zinc	49.220	20.560
Fluoride	1,180.000	670.800

(f) Solvent extraction raffinate.

BAT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million gallium pro- olvent extrac-
ArsenicLeadZincFluoride	39.330 7.904 27.480 658.700	17.500 3.764 11.480 374.500

§ 421.184 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Still liquor.

NSPS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germaniun chlorinated	
Arsenic	131.70	58.59
Lead	26.46	12.60
Zinc	91.98	38.43
Fluoride	2,205.00	1,254.00
Total suspended solids	2,583.00	1,229.00
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

⁽b) Chlorinator wet air pollution control.

NSPS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of germanium chlorinated	
Arsenic	27.530	12.250
Lead	5.531 19.230	2.634 8.034
Fluoride	461.000	262.100
Total suspended solids	540.000	256.800
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Germanium hydrolysis filtrate.

NSPS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for 1 one day	Maximum for monthly average
		ls per million f germanium
Arsenic	39,440	17.550
		17.550
Lead	7.925	3.774
Zinc	27.550	11.510
Fluoride	660.500	375.500
Total suspended solids	773.700	368.000
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Acid wash and rinse water.

NSPS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of germanium washed	
Arsenic	325.50 65.40 227.40 5,450.00 6,385.00	144.80 31.14 94.99 3,099.00 3,037.00
<u>pH</u>	(1)	(1)

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(e) Gallium hydrolysis filtrate.

NSPS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per millio pounds) of gallium hydrolyzed	
70.450	31.350
14.160	6.742
49.220	20.560
1,180.000	670.800
1,382.000	657.300
(1)	(1)
	mg/kg (pound pounds) hydrolyzed 70.450 14.160 49.220 1,180.000 1,382.000

¹ Within the range of 7.5 to 10.0 at all times.

(f) Solvent extraction raffinate.

NSPS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of gallium pro duced by solvent extraction	
Arsenic Lead Zinc Fluoride Total suspended solids pH	39.330 7.904 27.480 658.700 771.600 (¹)	17.500 3.764 11.480 374.500 367.000

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.185 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in primary and secondary germanium and gallium process wastewater introduced into a POTW must not exceed the following values:

(a) Still liquor.

PSES FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per mill pounds) of germani chlorinated	
Arsenic	131.70	58.59

PSES FOR THE PRIMARY AND SECONDARY GER-MANIUM AND GALLIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Lead	26.46	12.60
Zinc	91.98	38.43
Fluoride	2,205.00	1,254.00

(b) Chlorinator wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of germanium chlorinated	
Arsenic	27.530	12.250
Lead	5.531	2.634
Zinc	19.230	8.034
Fluoride	461.000	262.100

(c) Germanium hydrolysis filtrate.

PSES FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of germanium hydrolyzed	
Arsenic Lead Zinc Fluoride	39.440 7.925 27.550 660.500	17.550 3.774 11.510 375.500

(d) Acid wash and rinse water.

PSES FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per milli pounds) of germaniu washed	
Arsenic	325.50	144.80
Lead	65.40	31.14
Zinc	227.40	94.99
Fluoride	5,450.00	3,099.00

(e) Gallium hydrolysis filtrate.

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PSES FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	,	ds per million
Arsenic Lead Zinc Fluoride	70.450 14.160 49.220 1,180.000	31.350 6.742 20.560 670.800

(f) Solvent extraction raffinate.

PSES FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million gallium pro- olvent extrac-
Arsenic	39.330 7.904 27.480 658.700	17.500 3.764 11.480 374.500

§ 421.186 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary and secondary germanium and gallium process wastewater introduced into a POTW shall not exceed the following values:

(a) Still Liquor.

PSNS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds of chlorinated	
Arsenic	131.70	58.59
Lead	26.46 91.98	12.60 38.43
ZincFluoride	2,205.00	1,254.00

(b) Chlorinator Wet Air Pollution Control.

PSNS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds of chlorinated	
ArsenicLeadZincFluoride	27.530 5.531 19.230 461.000	12.250 2.634 8.034 262.100

(c) Germanium Hydrolysis Filtrate.

PSNS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds of hydrolyzed	
ArsenicLeadZincFluoride	39.440 7.925 27.550 660.500	17.550 3.774 11.510 375.500

(d) Acid Wash and Rinse Water.

PSNS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per/millior pounds of germanium washed	
Arsenic	325.50 65.40 227.40 5,450.00	144.80 31.14 94.99 3,099.00

(e) Gallium Hydrolysis Filtrate.

PSNS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of gallium hydrolyzed	
Arsenic Lead Zinc Fluoride	70.450 14.160 49.220 1,180.000	31.350 6.742 20.560 670.800

(f) Solvent Extraction Raffinate.

PSNS FOR THE PRIMARY AND SECONDARY GERMANIUM AND GALLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of gallium pro duced by solvent extraction	
ArsenicLeadZincFluoride	39.330 7.904 27.480 658.700	17.500 3.764 11.480 374.500

§ 421.187 [Reserved]

Subpart Q—Secondary Indium Subcategory

Source: 50 FR 38353, Sept. 20, 1985, unless otherwise noted.

§ 421.190 Applicability: Description of the secondary indium subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of indium at secondary indium facilities processing spent electrolyte solutions and scrap indium metal raw materials.

§ 421.191 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§§ 421.192-421.193 [Reserved]

§ 421.194 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Displacement Supernatant.

NSPS FOR THE SECONDARY INDIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of indium meta produced	
Cadmium	2.105	0.929
Lead	2.600	1.238
Zinc	9.037	3.776
Indium	2,724	1.114

NSPS FOR THE SECONDARY INDIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Total suspended solidspH	253.800 (¹)	120.700 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Spent Electrolyte.

NSPS FOR THE SECONDARY INDIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode indium produced	
Cadmium Lead Zinc Indium Total suspended solids pH	12.170 15.040 52.270 15.750 1,468.000 (¹)	5.370 7.160 21.840 6.444 698.100 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.195 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in secondary indium process wastewater introduced into a POTW must not exceed the following values:

(a) Displacement Supernatant.

PSES FOR THE SECONDARY INDIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of indium metal produced	
Cadmium Lead Zinc Indium	2.105 2.600 9.037 2.724	0.929 1.238 3.776 1.114

(b) Spent Electrolyte.

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PSES FOR THE SECONDARY INDIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode in- dium produced	
Cadmium	12.170	5.370
Lead	15.040	7.160
Zinc	52.270	21.840
Indium	15.750	6.444

§ 421.196 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary indium process wastewater introduced into a POTW should not exceed the following values:

(a) Displacement Supernatant.

PSNS FOR THE SECONDARY INDIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of indium metal produced	
Cadimum	2.105	0.929
Lead	2.600	1.238
Zinc	9.037	3.776
Indium	2.724	1.114

(b) Spent Electrolyte.

PSNS FOR THE SECONDARY INDIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode indium produced	
Cadmium	12.170 15.040	5.370 7.160
Zinc	52.270	21.840
Indium	15.750	6.444

§421.197 [Reserved]

Subpart R—Secondary Mercury Subcategory

Source: $50 \ FR \ 38354$, Sept. 20, 1985, unless otherwise noted.

§ 421.200 Applicability: Description of the secondary mercury subcategory.

The provision of this subpart are applicable to discharges resulting from the production of mercury from secondary mercury facilities processing recycled mercuric oxide batteries and other mercury containing scrap raw materials.

§421.201 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§§ 421.202-421.203 [Reserved]

§ 421.204 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Spent battery electrolyte.

NSPS FOR THE SECONDARY MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of mercury produced from batteries	
Lead	0.030	0.014
Mercury	0.016	0.006
Total suspended solids	1.590	1.272
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Acid wash and rinse water.

NSPS FOR THE SECONDARY MERCURY SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per millior pounds) of mercury washed and rinsed	
0.00056	0.00026
0.00030	0.00012
0.03000	0.02400
(¹)	(1)
	for any 1 day mg/kg (pound pounds) washed and 0.00056 0.00030

¹ Within the range of 7.5 to 10.0 at all times.

(c) Furnace wet air pollution control.

NSPS FOR THE SECONDARY MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of mercury proc essed through furnace	
Lead Mercury Total suspended solids pH	0.000 0.000 0.000 (1)	0.000 0.000 0.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

§421.205 [Reserved]

§ 421.206 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary mercury process wastewater introduced into a POTW shall not exceed the following values:

(a) Spent battery electrolyte.

PSNS FOR THE SECONDARY MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of mercury pro- duced from batteries	
Lead Mercury	0.030 0.016	0.014 0.006

(b) Acid wash and rinse water.

PSNS FOR THE SECONDARY MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of mercury washed and rinsed	
Lead Mercury	0.00056 0.00030	0.00026 0.00012

(c) Furnance wet air pollution control.

PSNS FOR THE SECONDARY MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds of mercury proc- essed through furnace	
Lead Mercury	0.000 0.000	0.000 0.000

§421.207 [Reserved]

Subpart S—Primary Molybdenum and Rhenium Subcategory

Source: 50 FR 38355, Sept. 20, 1985, unless otherwise noted.

§ 421.210 Applicability: Description of the primary molybdenum and rhenium subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of molybdenum and rhenium facilities.

§ 421.211 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.212 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently avail-

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall

achieve the following effluent limitation representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Molybdenum sulfide leachate.

BPT LIMITATIONS FOR THE PRIMARY MOLYBDENUM RHENIUM SUBCATEGORY

aximum	Maximum
r any 1	monthly
day	average
	ds per million molybdenum hed
0.968	0.431
0.195	0.093
0.889	0.588
0.570	0.255
eserved]	[Reserved].
61.720	27.130
16.210	9.214
18.980	9.029
	16.210

¹ Within the range of 7.5 to 10.0 at all times.

(b) Roaster SO₂ scrubber.

BPT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant of pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of sulfide roas	molybdenum
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride Total suspended solids pH	3.509 0.705 3.224 2.065 [Reserved] 223.800 58.770 68.840 (¹)	1.561 0.336 2.133 0.924 [Reserved]. 98.390 33.410 32.740

¹ Within the range of 7.5 to 10.0 at all times.

(c) Molybdic oxide leachate.

BPT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of molybdenum contained in molybdic oxide leached	
Arsenic	24.210 4.865	10.770 2.317
Nickel	22.240	14.710
Selenium	14.250	6.371
Molybdenum	[Reserved]	[Reserved]

BPT LIMITATIONS FOR THE PRIMARY MOLYB-DENUM AND RHENIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N)	1,544.000	678.800
Flouride	405.400	230.500
Total suspended solids	474.900	225.900
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Hydrogen reduction furnace scrubber.

BPT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million molybdenum er produced
Arsenic	47.860 9.617	21.300 4.580
Nickel	43.970	29.080
Selenium	28.170	12.600
Molybdenum	[Reserved]	[Reserved]
Ammonia (as N)	3,052.000	1,342.000
Fluoride	801.400	455.700
Total suspended solids	938.800	446.500
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Depleted rhenium scrubbing solution.

BPT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million molybdenum ted
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride Total suspended solids	1.497 0.301 1.375 0.881 [Reserved] 95.440 25.060 29.360	0.666 0.143 0.909 0.394 [Reserved] 41.960 14.250 13.960
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

[50 FR 38355, Sept. 20, 1985, as amended at 55 FR 31701, Aug. 3, 1990]

§ 421.213 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Molybdenum sulfide leachate.

BAT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		inds million molybdenum hed
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride	0.644 0.130 0.255 0.380 [Reserved] 61.720 16.210	0.287 0.060 0.171 0.171 [Reserved] 27.130 9.214

(b) Roaster SO₂ scrubber.

BAT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per/million molybdenum ted
Arsenic Lead Nickel Selenium Molybdenum Armonia (as N) Fluoride	2.334 0.470 0.924 1.377 [Reserved] 223.800 58.770	1.041 0.218 0.621 0.621 [Reserved] 98.390 33.410

(c) Molybdic oxide leachate.

BAT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per/millio pounds) of molybdenur contained in molybdi oxide leached	
Arsenic	16.100 3.244 6.371 9.499 [Reserved] 1,544.000 405.400	7.182 1.506 4.286 4.286 [Reserved] 678.800 230.500

(d) Hydrogen reduction furnace scrubber.

BAT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per/millio pounds) of molybdenur metal powder produced	
Arsenic	3.183 0.641 1.260 1.878 [Reserved] 305.300 80,150	1.420 0.298 0.847 0.847 [Reserved]. 134.200 45.570

(e) Depleted rhenium scrubbing solution.

BAT LIMITATIONS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of sulfide roas	molybdenum
Arsenic	0.995 0.201 0.394 0.587 [Reserved] 95.440 25.060	0.444 0.093 0.265 0.265 [Reserved]. 41.960 14.250

 $[50\ FR\ 38355,\ Sept.\ 20,\ 1985,\ as\ amended\ at\ 55\ FR\ 31701,\ 31702,\ Aug.\ 3,\ 1990]$

§ 421.214 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Molybdenum sulfide leachate.

NSPS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million molybdenum hed
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride Total suspended solids	0.644 0.130 0.255 0.380 [Reserved] 61.720 16.210	0.287 0.060 0.171 0.171 [Reserved]. 27.130 9.214 5.556
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Roaster SO₂ scrubber.

NSPS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million molybdenum ted
Arsenic	2.334 0.470 0.924 1.377 [Reserved] 223.800 58.770 25.190	1.041 0.218 0.621 0.621 [Reserved]. 98.390 33.410 20.150
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Molybdic oxide leachate.

NSPS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of molybdenun contained in molybdi oxide leached	
Arsenic	16.100	7.182
Lead	3.244	1.506
Nickel	6.371	4.286

NSPS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Selenium	9.499	4.286
Molybdenum	[Reserved]	[Reserved].
Ammonia (as N)	1,544.000	678.800
Fluoride	405.400	230.500
Total suspended solids	173.800	139.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Hydrogen reduction furnace scrubber.

NSPS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million molybdenum er produced
Arsenic	3.183 0.641 1.260 1.878 [Reserved] 305.300 80.150 34.350	1.420 0.298 0.847 0.847 [Reserved]. 134.200 45.570 27.480
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Depleted rhenium scrubbing solution.

NSPS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million molybdenum ted
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride Total suspended solids	0.995 0.201 0.394 0.587 [Reserved] 95.440 25.060 10.740	0.444 0.093 0.265 0.265 [Reserved]. 41.960 14.250 8.592
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

[50 FR 38355, Sept. 20, 1985, as amended at 55 FR 31702, Aug. 3, 1990]

§421.215 [Reserved]

§ 421.216 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary molybdenum and rhenium process wastewater introduced into a POTW shall not exceed the following values:

(a) Molybdenum sulfide leachate.

PSNS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million molybdenum hed
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N)	0.644 0.130 0.255 0.380 [Reserved] 61.720	0.287 0.060 0.171 0.171 [Reserved]. 27.130
Fluoride	16.210	9.214

(b) Roaster SO₂ scrubber.

PSNS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of molybdenum sulfide roasted	
Arsenic	2.334 0.470 0.924 1.377 [Reserved] 223.800 58.770	1.041 0.218 0.621 0.621 [Reserved]. 98.390 33.410

(c) Molybdic oxide leachate.

PSNS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of molybdenun contained in molybdid oxide leached	
Arsenic	16.100	7.182
Lead	3.244	1.506
Nickel	6.371	4.286
Selenium	9.499	4.286
Molybdenum	[Reserved]	[Reserved].
Ammonia (as N)	1,544.000	678.800
Fluoride	405.400	230.500

(d) Hydrogen reduction furnace scrubber.

PSNS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of molybdenum metal powder produced	
Arsenic Lead Nickel Selenium Molybdenum Ammonia (as N) Fluoride	3.183 0.641 1.260 1.878 [Reserved] 305.300 80,150	1.420 0.298 0.847 0.847 [Reserved]. 134.200 45.570

(e) Depleted rhenium scrubbing solution.

PSNS FOR THE PRIMARY MOLYBDENUM AND RHENIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of molybdenum sulfide roasted	
0.995 0.201 0.394	0.444 0.093 0.265
0.587	0.265
[Reserved]	[Reserved].
95.440	41.960
25.060	14.250
	for any 1 day mg/kg (pounc pounds) of sulfide roas 0.995 0.201 0.394 0.587 [Reserved] 95.440

 $[50\ FR\ 38355,\ Sept.\ 20,\ 1985,\ as\ amended\ at\ 55\ FR\ 31702,\ 31703,\ Aug.\ 3,\ 1990]$

§421.217 [Reserved]

Subpart T—Secondary Molybdenum and Vanadium Subcategory

Source: $50 \ \mathrm{FR}$ 38357, Sept. 20, 1985, unless otherwise noted.

§ 421.220 Applicability: Description of the secondary molybdenum and vanadium subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of molybdenum or vanadium by secondary molybdenum and vanadium facilities.

§421.221 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.222 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Leach tailings.

BPT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of technical grade molybdenum plus vanadium plus pure grade molybdenum pro- duced	
Arsenic	40.778	18.145
Chromium	8.585	3.512
Lead	8.195	3.902
Nickel	37.460	24.779
Iron	23.410	11.902
Molybdenum	[Reserved]	[Reserved]
Ammonia (as N)	8078.000	3551.000
Total Suspended Solids	799.950	380.460

BPT LIMITATIONS FOR THE SECONDARY MOLYB-DENUM AND VANADIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Molybdenum filtrate solvent extraction raffinate.

BPT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of technical grade molybdenum plus vanadium plus pure grade molybdenum pro- duced	
Arsenic	121.720 25.625 24.460 111.819 69.887 [Reserved] 24114.000 2387.800	54.162 10.483 11.648 73.964 35.526 [Reserved] 10600.000 1135.660
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Vanadium decomposition wet air pollution control.

BPT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of vanadium y decomposi-
Amania	0.000	0.000
Arsenic	0.000	0.000
Chromium	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Iron	0.000	0.000
Molybdenum	0.000	0.000
Ammonia (as N)	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Molybdenum drying wet air pollution control.

BPT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million molybdenum
Arsenic	0.000	0.000
Chromium	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Iron	0.000	0.000
Molybdenum	0.000	0.000
Ammonia (as N)	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Pure Grade Molybdenum.

BPT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of denum produ	pure molyb-
Arsenic	48.655 10.243 9.778 44.698 27.936 [Reserved] 9638.000 954.480	21.650 4.190 4.656 29.566 14.201 [Reserved] 4237.000 453.960
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

 $[50\ FR\ 38357,\ Sept.\ 20,\ 1985,\ as\ amended\ at\ 55\ FR\ 31703,\ Aug.\ 3,\ 1990]$

§ 421.223 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Leach Tailings.

BAT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of technica grade molybdenum plus vanadium plus pure grade molybdenum pro- duced	
Arsenic	27.120	12.097
Chromium	7.219	2.927
Lead	5.463	2.536
Nickel	10.731	7.219
Iron	23.413	11.902
Molybdenum	[Reserved]	[Reserved]
Ammonia (as N)	8078.000	3551.000

(b) Molybdenum filtrate solvent extraction raffinate.

BAT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of technica grade molybdenum plus vanadium plus pure grade molybdenum pro- duced	
Arsenic	80.952 21.548 16.306	36.108 8.736 7.571
Nickel	32.031	21.548 35.526
Iron	69.887	
Molybdenum	[Reserved] 24114.000	[Reserved]
Ammonia (as N)	24114.000	10600.000

$\begin{tabular}{ll} (c) Vanadium decomposition wet air pollution control. \end{tabular}$

BAT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) (ds per million of vanadium y decomposi-
Arsenic	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000

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(d) Molybdenum drying wet air pollution control.

BAT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million molybdenum
Arsenic Chromium Lead Nickel Iron Molybdenum Ammonia (as N)	0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000

(e) Pure Grade Molybdenum.

BAT LIMITATIONS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of denum prod	pure molyb-
Arsenic	32.359 8.614 6.518 12.804 27.936 [Reserved] 9638.000	14.434 3.492 3.026 8.614 14.201 [Reserved] 4237.000

[50 FR 38357, Sept. 20, 1985, as amended at 55 FR 31703, 31704, Aug. 3, 1990]

§ 421.224 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Leach tailings.

NSPS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of technica grade molybdenum plu vanadium plus pur grade molybdenum pro duced	
Arsenic	27.120	12.097
Chromium	7.219	2.927
Lead	5.463	2.536

NSPS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Nickel	10.731 23.413 [Reserved] 8078.000 292.665	7.219 11.902 [Reserved] 3551.000 234.132
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Molybdenum filtrate solvent extraction raffinate.

NSPS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of technical grade molybdenum plus vanadium plus pure grade molybdenum pro- duced	
Arsenic Chromium Lead Nickel Iron Molybdenum Ammonia (as N) Total Suspended Solids	80.952 21.548 16.306 32.031 69.887 [Reserved] 24114.000 873.585	36.108 8.736 7.571 21.548 35.526 [Reserved] 10600.000 698.868
<u>pH</u>	(¹)	(1)

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(c) Vanadium decomposition wet air pollution control.

NSPS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million molybdenum um produced
Arsenic Chromium Lead Nickel Iron Molybdenum Ammonia (as N) Total suspended solids pH	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 (1)	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 (1)

¹ Within the range of 7.5 to 10.0 at all times.

NSPS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million molybdenum um produced
Arsenic Chromium Lead Nickel Iron Molybdenum Ammonia (as N) Total suspended solids pH	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

¹ Within the range of 7.5 to 10.0 at all times.

(e) Pure Grade Molybdenum.

NSPS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million pure molyb- duced
Arsenic	32.359	14.434
Chromium	8.614	3.492
Lead	6.518	3.026
Nickel	12.804	8.614
Iron	27.936	14.201
Molybdenum	[Reserved]	[Reserved]
Ammonia (as N)	9638.000	4237.000
Total Suspended Solids	349.200	279.360
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

[50 FR 38357, Sept. 20, 1985, as amended at 55 FR 31704, Aug. 3, 1990]

§ 421.225 [Reserved]

§ 421.226 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary molybdenum and vanadium process wastewater introduced into a POTW shall not exceed the following values:

(a) Leach tailings.

⁽d) Molybdenum drying wet air pollution control.

PSNS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of technical grade molybdenum plus vanadium plus pure grade molybdenum pro- duced	
Arsenic	27.120	12.097
Chromium	7.219	2.927
Lead	5.463	2.536
Nickel	10.731	7.219
Iron	23.413	11.902
Molybdenum	[Reserved]	[Reserved]
Ammonia (as N)	8078.000	3551.000

(b) Molybdenum filtrate solvent extraction raffinate.

PSNS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of technical grade molybdenum plus vanadium plus pure grade molybdenum pro- duced	
Arsenic	80.952	36.108
Chromium	21.548	8.736
Lead	16.306	7.571
Nickel	32.031	21.548
Iron	69.887	35.526
Molybdenum	[Reserved]	[Reserved]
Ammonia (as N)	24114.000	10600.000

$\begin{tabular}{ll} (c) Vanadium decomposition wet air pollution control. \end{tabular}$

PSNS FOR THE SECONDARY MOLYBDENUM AND VANDADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million anadium pro- ecomposition
Arsenic	0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000

(d) Molybdenum drying wet air pollution control.

PSNS FOR THE SECONDARY MOLYBDENUM AND VANDADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of produced	ds per million molybdenum
Arsenic Chromium Lead Nickel Iron Molybdenum Ammonia (as N)	0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000

(e) Pure Grade Molybdenum.

PSNS FOR THE SECONDARY MOLYBDENUM AND VANADIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of pure moly denum produced	
Arsenic	32.359 8.614 6.518 12.804 27.936 [Reserved] 9638.000	14.434 3.492 3.026 8.614 14.201 [Reserved] 4237.000

[50 FR 38357, Sept. 20, 1985, as amended at 55 FR 31704, 31705 Aug. 3, 1990]

§ 421.227 [Reserved]

Subpart U—Primary Nickel and Cobalt Subcategory

Source: $50 \ FR \ 38359$, Sept. 20, 1985, unless otherwise noted.

§ 421.230 Applicability: Description of the primary nickel and cobalt subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of nickel or cobalt by primary nickel and cobalt facilities processing ore concentrate raw materials.

§421.231 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.232 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Raw Material dust control.

BPT LIMITATIONS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of copper, nick- el, and cobalt in the crushed raw material	
Connor	0.146	0.077
Copper		
Nickel	0.148	0.098
Ammonia (as N)	10.260	4.512
Cobalt	0.016	0.007
Total suspended solids	3.157	1.502
pH	(1)	(1)

AA1 Within the range of 7.5 to 10.0 at all times.

(b) Nickel wash water.

BPT LIMITATIONS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of nickel powder washed	
Copper	0.064	0.034
Nickel	0.065	0.043
Ammonia (as N)	4.515	1.985
Cobalt	0.007	0.003
Total suspended solids	1.389	0.660
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Nickel reduction decant.

BPT LIMITATIONS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of nickel produced	
24.120 24.370 1,692.000 2.666 520.500	12.700 16.120 743.900 1.143 247.600
	mg/kg (pound pounds) of nic 24.120 24.370 1,692.000 2.666

¹ Within the range of 7.5 to 10.0 at all times.

(d) Cobalt reduction decant.

BPT LIMITATIONS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper Nickel Ammonia (as N) Cobalt Total suspended solids PH	40.660 41.080 2,852.000 4.494 877.300 (1)	21.400 27.180 1,254.000 1.926 417.300 (1)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.233 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Raw material dust control.

BAT LIMITATIONS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of copper, nick el, and cobalt in the crushed raw material	
Copper	0.099	0.047
Nickel	0.042	0.028
Ammonia (as N)	10.260	4.512

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BAT LIMITATIONS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt	0.011	0.005

(b) Nickel wash water.

BAT LIMITATIONS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of nickel powder washed	
Copper	0.043 0.019	0.021 0.013
Ammonia (as N)	4.515	1.985
Cobalt	0.005	0.002

(c) Nickel reduction decant.

BAT LIMITATIONS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of nickel produced	
Copper	16.250	7.744
Nickel	6.982	4.697
Ammonia (as N)	1,692.000	743.900
Cobalt	1.777	0.889

(d) Cobalt reduction decant.

BAT LIMITATIONS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	27.390	13.050
Nickel	11.770	7.917
Ammonia (as N)	2,852.000	1,254.000
Cobalt	2.996	1.498

[50 FR 38359, Sept. 20, 1985; 50 FR 41144, Oct. 9, 1985]

§ 421.234 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Raw Material Dust Control.

NSPS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of copper, nick- el, and cobalt in the crushed raw material	
Copper	0.099 0.042 10.260 0.011 1.155	0.047 0.028 4.512 0.005 0.924

¹ Within the range of 7.5 to 10.0 at all times.

(b) Nickel wash water.

NSPS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of washed	ds per million nickel powder
Copper	0.043 0.019 4.515 0.005 0.508	0.021 0.013 1.985 0.002 0.406

¹ Within the range of 7.5 to 10.0 at all times.

(c) Nickel reduction decant.

NSPS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of nickel produced	
CopperNickel	16.250 6.982	7.744 4.697
Ammonia (as N)	1,692.000	743.900
Cobalt	1.777	0.889
Total suspended solids	190.400	152.300
pH	1	1

¹ Within the range of 7.5 to 10.0 at all times.

(d) Cobalt reduction decant.

NSPS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	27.390 11.770 2,852.000 2.996 321.000	13.050 7.917 1,254.000 1.498 256.800

¹ Within the range of 7.5 to 10.0 at all times.

§421.235 [Reserved]

§ 421.236 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with a 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary nickel and cobalt process wastewater introduced into a POTW shall not exceed the following values:

(a) Raw material dust control.

PSNS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of copper, nick- el, and cobalt in the crushed raw material	
Copper	0.099 0.042 10.260 0.011	0.047 0.028 4.512 0.005

(b) Nickel wash water.

PSNS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of nickel powde washed	
Copper	0.043 0.019	0.021 0.013

PSNS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N)	4.515 0.005	1.985 0.002

(c) Nickel reduction decant.

PSNS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) nickel produced	
Copper	16.250	7.744
Nickel	6.982	4.697
Ammonia (as N)	1,692.000	743.900
Cobalt	1.777	0.889

(d) Cobalt reduction decant.

PSNS FOR THE PRIMARY NICKEL AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	27.390 11.770	13.050 7.917
Ammonia (as N) Cobalt	2,852.000 2.996	1,254.000 1.498

§421.237 [Reserved]

Subpart V—Secondary Nickel Subcategory

SOURCE: 50 FR 38360, Sept. 20, 1985, unless otherwise noted.

§ 421.240 Applicability: Description of the secondary nickel subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of nickel by secondary nickel facilities processing slag, spent acids, or scrap metal raw materials.

§ 421.241 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR 401 shall apply to this subpart.

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§§ 421.242-421.243 [Reserved]

§ 421.244 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Slag reclaim tailings.

NSPS FOR THE SECONDARY NICKEL SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of slag input to reclaim process	
Chromium (total)	5.653	2.313
Copper	24.410 24.670	12.850 16.320
Total suspended solids	526.800	250.500
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Acid reclaim leaching filtrate.

NSPS FOR THE SECONDARY NICKEL SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of nickel produ	acid reclaim
Chromium (total)	2.198	0.899
Copper	9.491	4.995
Nickel	9.590	6.344
Total suspended solids	204.800	97.400
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Acid reclaim leaching belt filter backwash.

NSPS FOR THE SECONDARY NICKEL SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of acid reclaim nickel produced	
Chromium (total)	0.528 2.278	0.216 1.199
Nickel	2.302	1.523
Total suspended solids	49.160	23.380
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.245 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in secondary nickel process wastewater introduced into a POTW must not exceed the following values:

(a) Slag reclaim tailings.

PSES FOR THE SECONDARY NICKEL SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of slag input to reclaim process	
Chromium (total)	5.653 24.410 24.670	2.313 12.850 16.320

(b) Acid reclaim leaching filtrate.

PSES FOR THE SECONDARY NICKEL SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of acid reclaim nickel produced	
Chromium (total)	2.198 9.491 9.590	0.899 4.995 6.344

(c) Acid reclaim leaching belt filter backwash

PSES FOR THE SECONDARY NICKEL SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of acid reclaim nickel produced	
Chromium (total)	0.528 2.278 2.302	0.216 1.199 1.523

§421.246 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary nickel process wastewater introduced into a POTW shall not exceed the following values:

(a) Slag reclaim tailings.

PSNS FOR THE SECONDARY NICKEL SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of slag input to reclaim process	
Chromium (total)	5.653 24.410 24.670	2.313 12.850 16.320

(b) Acid reclaim leaching filtrate.

PSNS FOR THE SECONDARY NICKEL SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of acid reclaim nickel produced	
Chromium (total)	2.198	0.899
Copper	9.491	4.995
Nickel	9.590	6.344

(c) Acid reclaim leaching belt filter backwash.

PSNS FOR THE SECONDARY NICKEL SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of acid reclaim nickel produced	
Chromium (total)	0.528 2.278 2.302	0.216 1.199 1.523

§421.247 [Reserved]

Subpart W—Primary Precious Metals and Mercury Subcategory

SOURCE: 50 FR 38361, Sept. 20, 1985, unless otherwise noted.

§ 421.250 Applicability: Description of the primary precious metals and mercury subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of gold, silver, or mercury by primary precious metals and mercury facilities.

§421.251 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.252 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Smelter wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/troy ounc silver s	e of gold and melted
0.546	0.260
0.325	0.130
0.533	0.221
1.898	0.793
0.130	
26.000	15.600
53.300	25.350
(1)	(1)
	mg/troy ounc silver s 0.546 0.325 0.533 1.898 0.130 26.000 53.300

¹ Within the range of 7.5 to 10.0 at all times.

(b) Silver chloride reduction spent solution.

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BPT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant of pollutant property	Maximum for any 1 day	Maximum for monthly average
		nce of silver n solution
Lead	0.168	0.080
Mercury	0.100	0.040
Silver	0.164	0.068
Zinc	0.584	0.244
Gold	0.040	
Oil and grease	8.000	4.800
Total suspended solids	16.400	7.800
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

$\mbox{\ensuremath{(c)}}$ Electrolytic cells wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nce of gold ctrolytically
Lead	83,160	39.600
Mercury	49.500	19.800
Silver	81.180	33.660
Zinc	289.100	120.800
Gold	19.800	
Oil and grease	3,960.000	2,376.000
Total suspended solids	8,118.000	3,861.000
pH	(1)	(¹)

 $^{^{\}mbox{\scriptsize 1}}$ Within the range of 7.5 to 10.0 at all times.

$\begin{tabular}{ll} (d) & Electrolyte & preparation & wet & air \\ pollution & control. \\ \end{tabular}$

BPT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ound electrolyte	ce of silver in produced
Lead	0.021	0.010
Mercury	0.013	0.005
Silver	0.021	0.009
Zinc	0.073	0.031
Gold	0.005	
Oil and Grease	1.000	0.600
Total suspended solids	2.050	0.975
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Calciner wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead Mercury	78.200 46.550	37.240 18.620
Silver	76.340	31.650
Zinc	271.900	113.600
Gold	18.600	
Oil and Grease	3,724.000	2,234.000
Total suspended solids	7,634.000	3,631.000
pH	(1)	(1)

¹Within the range of 7.5 to 10.0 at all times.

(f) Calcine quench water.

BPT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead	7.392	3.520
Mercury	4.400	1.760
Silver	7.216	2.992
Zinc	25.700	10.740
Gold	1.760	
Oil and Grease	352.000	211.200
Total suspended solids	721.600	343.200
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Calciner stack gas contact cooling water.

BPT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead	1.743	0.830
Mercury	1.038	0.415
Silver	1.702	0.706
Zinc	6.059	2.532
Gold	0.415	
Oil and Grease	83.000	49.800
Total suspended solids	170.200	80.930
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

⁽h) Condenser blowdown.

BPT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of densed	s per million mercury con-
Lead	5.796 3.450 5.658 20.150 1.380 276.000 565.800	2.760 1.380 2.346 8.418

¹ Within the range of 7.5 to 10.0 at all times.

(i) Mercury cleaning bath water.

BPT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead	0.588 0.350 0.574 2.044 0.140 28.000 57.400	0.280 0.140 0.238 0.854 16.800 27.300
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.253 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Smelter wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold and silver smelted	
Lead	0.364	0.169
Mercury	0.195	0.078
Silver	0.377	0.156
Zinc	1.326	0.546
Gold	0.130	

(b) Silver chloride reduction spent solution.

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver reduced in solution	
Lead	0.112	0.052
Mercury	0.060	0.024
Silver	0.116	0.048
Zinc	0.408	0.168
Gold	0.040	

(c) Electrolytic cells wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce electro	of gold refined lytically
Lead	5.544 2.970 5.742 20.200	2.574 1.188 2.376 8.316
Gold	1.980	0.310

(d) Electrolyte preparation wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver in electrolyte produced	
Lead	0.014 0.008 0.015 0.051 0.005	0.007 0.003 0.006 0.021

(e) Calciner Wet Air Pollution Con-

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead	6.160 3.300 6.380 22.440 2.200	2.860 1.320 2.640 9.240

(f) Calcine quench water.

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead	4.928 2.640 5.104	2.288 1.056 2.112
ZincGold	17.950 1.760	7.392

(g) Calciner stack gas contact cooling water.

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of mercury con- densed	
Lead	1.162 0.623 1.204	0.540 0.249 0.498

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
ZincGold	4.233 0.415	1.743

(h) Condenser blowdown.

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead	3.864	1.794
Mercury	2.070	0.828
Silver	4.002	1.656
Zinc	14.080	5.796
Gold	1.380	

(i) Mercury cleaning bath water.

BAT LIMITATIONS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of densed	s per millior mercury con-
Lead	0.392 0.210 0.406 1.428 0.140	0.182 0.084 0.168 0.588

\$421.254 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Smelter wet air pollution control.

NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold and silver smelted	
Lead Mercury	0.364 0.195	0.169 0.078
Silver	0.193	0.156
Zinc	1.326	0.546

NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Gold	0.130	
Oil and Grease	13.000	13.000
Total suspended solids	19.500	15.600
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Silver chloride reduction spent solution. $\label{eq:solution}$

NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy our reduced i	
Lead Mercury	0.112 0.060	0.052 0.024
SilverZinc	0.116 0.408	0.048 0.168
Gold Oil and Grease	0.040 4.000	4.000
Total suspended solids	6.000	4.800
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Electrolytic cells wet air pollution control.

NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		of gold refined lytically
Lead	5.544	2.574
Mercury	2.970	1.188
Silver	5.742	2.376
Zinc	20.200	8.316
Gold	1.980	
		400.000
Oil and Grease	198.000	198.000
Total suspended solids	297.000	237.600
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Electrolyte preparation wet air pollution control.

NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ound electrolyte	
Lead Mercury Silver Zinc Gold Oil and Grease	0.014 0.008 0.015 0.051 0.005 0.500	0.007 0.003 0.006 0.021
Total suspended solidspH	0.750 (¹)	0.600 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Calciner wet air pollution control.

NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of densed	ls per million mercury con-
Lead	6.160 3.300 6.380 22.440 2.200 220.000 330.000	2.860 1.320 2.640 9.240 220.000 264.000

 $^{^{\}mbox{\scriptsize 1}}\mbox{\ensuremath{\mbox{Within}}}$ the range of 7.5 to 10.0 at all times.

(f) Calcine quench water.

NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead	4.928 2.640 5.104 17.950 1.760	2.288 1.056 2.112 7.392
Oil and Grease	176.000 264.000 (¹)	176.000 211.200 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Calciner stack gas contract cooling water.

NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead Mercury Silver Zinc Gold Oil and Grease Total suspended solids pH	1.162 0.623 1.204 4.233 0.415 41.500 62.250	0.540 0.249 0.498 1.743 41.500 49.800

¹ Within the range of 7.5 to 10.0 at all times.

(h) Condenser blowdown.

NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million mercury con-
Lead Mercury Silver Zinc Gold Oil and Grease Total suspended solids pH	3.864 2.070 4.002 14.080 1.380 138.000 207.000	1.794 0.828 1.656 5.796

¹ Within the range of 7.5 to 10.0 at all times.

(i) Mercury cleaning bath water.

NSPS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million Mercury con-
Lead	0.392 0.210 0.406 1.428 0.140 14.000 21.000	0.182 0.084 0.168 0.588

¹ Within the range of 7.5 to 10.0 at all times.

[50 FR 38361, Sept. 20, 1985; 50 FR 41144, Oct. 9, 1985]

§ 421.255 [Reserved]

§ 421.256 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary precious metals and mercury process wastewater introduced into a POTW shall not exceed the following values:

(a) Smelter wet air pollution control.

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold and silver smelted	
Lead Mercury	0.364 0.195	0.169 0.078
Silver	0.377	0.156
Zinc	1.326	0.546
Gold	0.130	

(b) Silver chloride reduction spent solution.

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver reduced in solution	
Lead	0.112 0.060 0.116 0.408 0.040	0.052 0.024 0.048 0.168

(c) Electrolytic cells wet air pollution control.

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold refined electrolytically	
Lead Mercury Silver	5.544 2.970 5.742	2.574 1.188 2.376

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Zinc	20.200	8.316
Gold	1.980	

(d) Electrolyte preparation wet air pollution control.

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of silver in electrolyte produced	
Lead	0.014 0.008 0.015	0.007 0.003 0.006
ZincGold	0.051 0.005	0.021

(e) Calciner wet air pollution control.

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of mercury con- densed	
Lead Mercury	6.160 3.300	2.860 1.320
Silver	6.380	2.640
Zinc	22.440	9.240
Gold	2.200	

(f) Calcine quench water.

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of mercury con densed	
Lead	4.928	2.288
Mercury	2.640	1.056
Silver	5.104	2.112
Zinc	17.950	7.392
Gold	1.760	

(g) Calciner stack gas contact cooling water.

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million mercury con-
Lead	1.162 0.623 1.204 4.233 0.415	0.540 0.249 0.498 1,743

(h) Condenser blowdown.

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of densed	ds per million mercury con-
Lead	3.864 2.070 4.002 14.080 1.380	1.794 0.828 1.656 5.656

(i) Mercury cleaning bath water.

PSNS FOR THE PRIMARY PRECIOUS METALS AND MERCURY SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million mercury con-
Lead MercurySilver	0.392 0.210 0.406	0.182 0.084 0.168
ZincGold	1.428 0.140	0.588

§421.257 [Reserved]

Subpart X—Secondary Precious Metals Subcategory

Source: $50 \ \mathrm{FR}$ 38365, Sept. 20, 1985, unless otherwise noted.

§ 421.260 Applicability: Description of the secondary precious metals subcategory.

The provisions of this subpart are applicable to discharges resulting from

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the production of precious metals at secondary precious metals facilities.

§ 421.261 Specialized definitions.

For the purpose of this subpart:

- (a) Except as provided below, the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.
- (b) The term *precious metals* shall mean gold, platinum, palladium, rhodium, iridium, osmium, and ruthenium.
- (c) The term *Combined Metals,* shall mean the total of gold, platinum and palladium.

[50 FR 38365, Sept. 20, 1985, as amended at 55 FR 31705, Aug. 3, 1990]

§ 421.262 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Furnace wet air pollution control.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of preciou metals, including silve incinerated or smelted	
Copper	136,400	71.800
	20.820	8.616
Cyanide (total)		
Zinc	104.800	43.800
Ammonia (as N)	9,571.000	4,207.000
Combined metals	21.54	
Total suspended solids	2,944.000	1,400.000
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Raw material granulation.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Combined metals 1.902			
Copper	Pollutant or pollutant property	for any 1	for monthly
Cyanide (total) 1.839 0.761 Zinc 9.256 3.867 Ammonia (as N) 845.100 371.500 Combined metals 1.902 Total suspended solids 259.900 123.600		metal in th	ne granulated
Cyanide (total) 1.839 0.761 Zinc 9.256 3.867 Ammonia (as N) 845.100 371.500 Combined metals 1.902 Total suspended solids 259.900 123.600	Copper	12.050	6 3 4 0
Zinc 9.256 3.867 Ammonia (as N) 845.100 371.500 Combined metals 1.902 Total suspended solids 259.900 123.600			
Ammonia (as N) 845.100 371.500 Combined metals 1.902 Total suspended solids 259.900 123.600			
Combined metals 1.902 Total suspended solids 259.900 123.600	Zinc	9.256	3.867
Total suspended solids	Ammonia (as N)	845.100	371.500
	Combined metals	1.902	
	Total suspended solids	259.900	123.600
	pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Spent plating solutions.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ent plating so- as a raw ma-
Copper Cyanide (total) Zinc Ammonia (as N) Combined metals Total suspended solids pH	1.900 0.290 1.460 133.300 0.300 41.000 (¹)	1.000 0.120 0.610 58.600 19.500 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Spent cyanide stripping solutions.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		e of gold pro- cyanide strip-
Copper Cyanide (total) Zinc Ammonia (as N) Combined metals Total suspended solids PH	7.030 1.073 5.402 493.200 1.110 151.700	3.700 0.444 2.257 216.800 72.150 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Refinery wet air pollution control. 2

²This allowance applies to either acid or alkaline wet air pollution control scrubbers. If both acid and alkaline wet air pollution control scrubbers are present in a particular facility the same allowance applies to each.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		e of precious cluding silver, refinery
Copper	39.900 6.090 30.660	21.000 2.520 12.810
Ammonia (as N)	2,799.000	1,231.000
Combined metals	6.300	
Total suspended solids	861.000	409.500
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at alltimes.

(f) Gold solvent extraction raffinate and wash water.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		e of gold pro- olvent extrac-
0	4.407	0.000
Copper	1.197	0.630
Cyanide (total)	0.183	0.076
Zinc	0.920	0.384
Ammonia (as N)	83.980	36.920
Combined metals	0.189	
Total suspended solids	25.830	12.290
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Gold spent electrolyte.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nce of gold electrolysis
Copper	0.017	0.009
Cyanide (total)	0.003	0.001
Zinc	0.103	0.005
Ammonia (as N)	1.160	0.510
Combined metals	0.003	
Total suspended solids	0.357	0.170
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Gold precipitation and filtration.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nce of gold pitated
Copper	8.360 1.276 6.424 586.500 1.320 180.400	4.400 0.528 2.684 257.800 85.800

¹ Within the range of 7.5 to 10.0 at all times.

(i) Platinum precipitation and filtration.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		e of platinum bitated
Copper	9.880	5.200
Cyanide (total)	1.508	0.624
Zinc	7.592	3.172
Ammonia (as N)	693.200	304.700
Combined metals	1.560	
Total suspended solids	213.200	101.400
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

$(j)\ Palladium\ precipitation\ and\ filtration.$

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		e of palladium itated
Copper Cyanide (total)	11.400 1.740 8.760 799.800 1.800 246.000 (¹)	6.000 0.720 3.660 351.600 117.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Other platinum group metals precipitation and filtration.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy oun platinum g	group metals
Copper	9.880 1.508 7.592 693.200	5.200 0.624 3.172 304.700
Combined metals Total suspended solidspH	1.560 213.200 (¹)	101.400 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(l) Spent solution from PGC salt production.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		nce of gold PGC product
Copper Cyanide (total)	1.710 0.261 1.314 120.000 0.270 36.900 (¹)	0.900 0.108 0.549 52.740 17.550 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(m) Equipment and floor wash.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		e of precious cluding silver, refinery
Copper	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(n) Preliminary treatment.

BPT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

	Maximum	Maximum
Pollutant or pollutant property	for any 1	for monthly
	day	average
	mg/troy ounce of total pre-	
	cious metals produced	
	through this operation	
Copper	95.000	50.000
Cyanide (Total)	14.500	6.000
Zinc	73.000	30.500
Ammonia (as N)	6665.000	2930.000
Combined Metals	15.000	
Total Suspended Solids	2050.000	975.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

 $[50\ FR\ 38365,\ Sept.\ 20,\ 1985,\ as\ amended\ at\ 55\ FR\ 31705,\ 31706,\ Aug.\ 3,\ 1990]$

§ 421.263 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Furnace wet air pollution control.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver incinerated or smelted	
Copper	5.760	2.745
Cyanide (total)	0.900	0.360
Zinc	4.590	1.890
Combined metals	1.350	
Ammonia (as N)	599.900	263.700

⁽b) Raw material granulation.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounc metals in the raw materia	he granulated
Copper Cyanide (total) Zinc Combined metals Palladium Platinum	0.819 0.128 0.653 0.192 0.064 0.064	0.390 0.051 0.269
Ammonia (as N)	85.310	37.500

(c) Spent plating solutions.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/liter of spent plating so- lution used as a raw ma- terial	
Copper	1.280	0.610
Cyanide (total)	0.200	0.080
Zinc	1.020	0.420
Gold.		
Combined metals	0.300	
Ammonia (as N)	133.300	58.600

(d) Spent cyanide stripping solutions.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold pro duced by cyanide strip ping	
Copper	4.736	2.257
Cyanide (total)	0.740	0.296
Zinc	3.774	1.554
Combined metals	1.110	
Ammonia (as N)	493.200	216.800

(e) Refinery Wet Air Pollution Control $^{\rm 2}$

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver produced in refinery	
Copper	1.280 0.200 1.020 0.300 133.300	0.610 0.080 0.420 58.600

(f) Gold solvent extraction raffinate and wash water.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold pro- duced by solvent extrac- tion	
Copper	0.806 0.126 0.643 0.189 83.980	0.384 0.050 0.265 36.920

(g) Gold spent electrolyte.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold produced by electrolysis	
Copper	0.0111 0.0017 0.0089	0.0053 0.0007 0.0037
Combined metalsAmmonia (as N)	0.0030 1.1600	0.5100

(h) Gold precipitation and filtration.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold precipitated	
Copper Cyanide (total) Zinc Combined metals Ammonia (as N)	5.632 0.880 4.488 1.320 586.500	2.684 0.352 1.848 257.800

²This allowance applies to either acid or alkaline wet air pollution control scrubbers. If both acid and alkaline wet air pollution control scrubbers are present in a particular facility the same allowance applies to each.

(i) Platinum precipitation and filtration.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of platinum precipitated	
Copper Cyanide (total)	6.656 1.040	3.172 0.416
Zinc	5.304	2.184
Combined metals	0.560	
Ammonia (as N)	693.200	304.700

$\mbox{(j)}$ Palladium precipitation and filtration.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of palladium precipitated	
Copper	7.680	3.660
Cyanide (total)	1.200	.480
Zinc	6.120	2.520
Combined metals	1.800	
Ammonia (as N)	799.800	351.600

(k) Other platinum group metals precipitation and filtration.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of othe platinum group metals precipitated	
Copper	6.656	3.172
Cyanide (total)	1.040	0.416
Zinc	5.304	2.184
Combined metals	1.560	
Ammonia (as N)	693.200	304.700

(l) Spent solutions from PGC salt production.

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BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold contained in PGC product	
Copper	1.152 0.180 0.918	0.549 0.072 0.378
Combined metalsAmmonia (as N)	0.270 120.000	52.740

(m) Equipment and floor wash.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver produced in refinery	
Copper Cyanide (total)	0.000	0.000
Zinc	0.000	0.000
Combined metals	0.000	
Ammonia (as N)	0.000	0.000

(n) Preliminary Treatment.

BAT LIMITATIONS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Mg/troy ounce of total pre cious metals produced through this operation	
Copper	64.000	30.500
Cyanide (Total)	10.000	4.000
Zinc	51.000	21.000
Combined metals	15.000	
Ammonia (as N)	6665.000	2930.000

 $[50\ FR\ 38365,\ Sept.\ 20,\ 1985,\ as\ amended\ at\ 55\ FR\ 31706-31708,\ Aug.\ 3,\ 1990;\ 55\ FR\ 36932,\ Sept.\ 7,\ 1990]$

§ 421.264 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Furnace wet air pollution control.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average	
	mg/troy ounce of precious metals, including silver incinerated or smelted		
Copper	5.760 0.900 4.590 1.350	2.745 0.360 1.890	
Ammonia (as N) Total suspended solidspH	599.900 67.500 (¹)	263.700 54.000 (¹)	

¹ Within the range of 7.5 to 10.0 at all times.

(b) Raw material granulation.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals in the granulated raw material	
Copper	0.819 0.128 0.653	0.390 0.051 0.269
Combined metalsAmmonia (as N)	0.192 85.310	37.500
Total suspended solidspH	9.600 (¹)	7.680 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Spent plating solutions.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/liter of spent plating so- lution used as a raw ma- terial	
Copper	1.280	0.610
Cyanide (total)	0.200	0.080
Zinc	1.020	0.420
Combined metals	0.300	
Ammonia (as N)	133.300	58.600
Total suspended solids	15.000	12.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Spent cyanide stripping solutions.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 for month average	
	mg/troy ounce of gold pro- duced by cyanide strip- ping	
Copper Cyanide (total) Zinc Combined metals Ammonia (as N) Total suspended solids pH	4.736 0.740 3.774 1.11 493.200 55.500	2.257 0.296 1.554 216.800 44.400 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Refinery Wet Air Pollution Con-

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silves produced in refinery	
Copper Cyanide (total) Zinc Combined metals Ammonia (as N) Total suspended solids pH	1.280 0.200 1.020 0.300 133.300 15.000 (¹)	0.610 0.080 0.420 58.600 12.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Gold solvent extraction raffinate and wash water.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold produced by solvent extraction	
Copper	0.806	0.384
Cyanide (total)	0.126	0.050
Zinc	0.643	0.265
Combined metals	0.189	
Ammonia (as N)	83.980	36.920

²This allowance applies to either acid or alkaline wet air pollution control scrubbers. If both acid and alkaline wet air pollution control scrubbers are present in a particular facility the same allowance applies to each.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Total suspended solidspH	9.450 (¹)	7.560 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Gold spent electrolyte.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Cyanide (total) 0.002 0.002 Combined metals 0.003			
Description	Pollutant or pollutant property	for any 1	for monthly
Cyanide (total) 0.002 0.002 Combined metals 0.003			
	Cyanide (total)	0.002 0.003 0.009 1.160	0.005 0.001 0.004 0.510 0.104

 $^{^{\}rm 1}\,\mbox{Within}$ the range of 7.5 to 10.0 at all times.

$\label{eq:condition} \mbox{(h) Gold precipitation and filtration.}$

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold precipitated	
Copper	5.632 0.880 4.488 1.320 586.500 66.00	2.684 0.352 1.848 257.800 52.800

¹ Within the range of 7.5 to 10.0 at all times.

(i) Platinum precipitation and filtration.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

COBOATEGORT			
Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average	
	mg/troy ounce of platinum precipitated		
Copper	6.656 1.040	3.172 0.416	
Zinc	5.304	2.184	
Combined metals	1.560		
Ammonia (as N)	693.200	304.700	
Total suspended solids	78.000	62.400	

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Palladium precipitation and filtration.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		e of palladium pitated
Copper	7.680 1.200 6.1200 1.800 799.800	3.660 0.480 2.520
Total suspended solidspH	90.000	72.000 (¹)

¹ Within the range of 7.5 to 10.00 at all times.

$\left(k\right)$ Other platinum group metals precipitation and filtration.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy oun platinum g	group metals
Copper Cyanide (total) Zinc Combined metals Ammonia (as N) Total suspended solids pH	6.656 1.040 5.304 1.560 693.200 78.000 (¹)	3.172 0.416 2.184 304.700 62.400 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(l) Spent solution from PGC salt production.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ou contained in	nce of gold PGC product
Copper	1.152 0.180	0.549 0.072
Zinc Combined metals	0.918 0.270	0.378

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N)	120.000 13.500 (¹)	52.740 10.800 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(m) Equipment and floor wash.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average	
	mg/troy ounce of preciou metals, including silve produced in refinery		
Connor	0.000	0.000	
Copper			
Cyanide (total)	0.000	0.000	
Zinc	0.000	0.000	
Combined metals	0.000		
Ammonia (as N)	0.000	0.000	
Total suspended solids	0.000	0.000	
pH	(1)	(¹)	

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(n) Preliminary Treatment.

NSPS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of total pro- cious metals produce through this operation	
Copper Cyanide (Total) Zinc Combined metals	64.000 10.000 51.000 15.000	30.500 4.000 21.000
Ammonia (as N)	6665.000	2930.000
Total Suspended Solids	750.000	600.000
pH	(¹)	(¹)

 $^{^{\}mbox{\scriptsize 1}}\mbox{\ensuremath{\mbox{Within}}}$ the range of 7.5 to 10.0 at all times.

[50 FR 38365, Sept. 20, 1985, as amended at 55 FR 31708–31710, Aug. 3, 1990]

§ 421.265 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following

pretreatment standards for existing sources. The mass of wastewater pollutants in secondary precious metals process wastewater introduced into a POTW must not exceed the following values:

(a) Furnace wet air pollution control.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver incinerated or smelted	
Copper	5.760	2.745
Cyanide (total)	0.900	0.360
Zinc	4.590	1.890
Combined metals	1.350	
Ammonia (as N)	599.900	263.700

(b) Raw material granulation.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Maximum for any 1 day mg/troy ounce	Maximum for monthly average
mg/troy ounce	
mg/troy ounce of precious metals in the granulated raw material	
0.819	0.390
	0.051
0.653	0.269
0.192	
85.310	37.500
	0.819 0.128 0.653 0.192

(c) Spent plating solutions.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property for mg/lil		
Copper	ximum any 1 day	Maximum for monthly average
Cyanide (total)	mg/liter of spent plating so lution used as a raw ma terial	
Combined metals	1.280 0.200 1.020 0.300 133.300	0.610 0.080 0.420 58.600

(d) Spent Cyanide stripping solutions.

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PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		e of gold pro- cyanide strip-
Copper	4.736	2.257
Cyanide (total)	0.740	0.296
Zinc	3.774	1.554
Combined metals	1.110	
Ammonia (as N)	493.200	216.800

(e) Refinery Wet Air Pollution Control. 1

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver produced in refinery	
Copper Cyanide (total)	1.280 0.200	0.610
Zinc	1.020	0.420
Combined metals	0.300	0.420
Ammonia (as N)	133.300	58.600

(f) Gold solvent extraction raffinate and wash water.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold pro- duced by solvent extrac- tion	
Copper Cyanide (total)	0.806 0.126	0.384 0.050
Zinc	0.643	0.265
Combined metals	0.189	
Ammonia (as N)	83.980	36.920

(g) Gold spent electrolyte.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
	nce of gold v electrolysis
0.011 0.002 0.009 0.003 1.160	0.005 0.001 0.004
	for any 1 day mg/troy ou produced by 0.011 0.002 0.009 0.003

(h) Gold precipitation and filtration.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/troy ounce of gold precipitated	
5.632 0.880 4.488	2.684 0.352 1.848
1.320 586.500	257.800
	for any 1 day mg/troy ou precip 5.632 0.880 4.488 1.320

(i) Platinum precipitation and filtra-

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of platinum precipitated	
Copper	6.656 1.040 5.304 1.560 693.200	3.172 0.416 2.184 304.700

(j) Palladium precipitation and filcration.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of palladium precipitated	
Copper	7.680 1.200 6.120	3.660 0.480 2.520

¹This allowance applies to either acid or alkaline wet air pollution control scrubbers. If both acid and alkaline wet air pollution control scrubbers are present in a particular facility the same allowance applies to each.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Combined metals Ammonia (as N)	1.800 799.800	351.600

(k) Other platinum group metals precipitation and filtration.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of othe platinum group metals precipitated	
Copper	6.656	3.172
Cyanide (total)	1.040	0.416
Zinc	5.304	2.184
Combined metals	1.560	
Ammonia (as N)	693.200	304.700

(l) Spent solution from PGC salt production.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold contained in PGC product	
Copper	1.152 0.180	0.549 0.072
Zinc Combined metals	0.918 0.270	0.378
Ammonia (as N)	120.000	52.740

(m) Equipment and floor wash.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver produced in refinery	
Copper Cyanide (total)	0.000 0.000	0.000
Zinc	0.000	0.000
Combined metals	0.000	0.000
Ammonia (as N)	0.000	0.000

(n) Preliminary Treatment.

PSES FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	Mg/troy ounce of total procious metals produce through this operation	
Copper	64.000 10.000 51.000 15.000 6665.000	30.500 4.000 21.000 2930.000

 $[50\ FR\ 38365,\ Sept.\ 20,\ 1985,\ as\ amended\ at\ 55\ FR\ 31710,\ 31711,\ Aug.\ 3,\ 1990]$

§ 421.266 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary precious metals process wastewater introduced into a POTW shall not exceed the following values:

(a) Furnace wet air pollution control.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver incinerated or smelted	
Copper	5.760 0.900 4.590 1.350 599.900	2.745 0.360 1.890 263.700

(b) Raw material granulation.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, in the granulated raw material	
Copper Cyanide (total) Zinc Combined metals	0.819 0.128 0.653 0.192	0.390 0.051 0.269

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PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia	85.310	37.500

(c) Spent plating solutions.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/liter of spent plating so- lution used as a raw materail	
Copper	1.280 0.200 1.020 0.300 133.300	0.610 0.080 0.420 58.600

(d) Spent cyanide stripping solutions.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/troy ounce of gold pro duced by cyanide strip ping	
4.736 0.740 3.774 1.110	2.257 0.296 1.554
	mg/troy ounce duced by ping 4.736 0.740 3.774

(e) Refinery Wet Air Pollution Control. 1

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver produced in refinery	
Copper	1.280 0.200 1.020 0.300	0.610 0.080 0.420

¹This allowance applies to either acid or alkaline wet air pollution control scrubbers. If both acid and alkaline wet air pollution control scrubbers are present in a particular facility the same allowance applies to each.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N)	133.300	58.600

(f) Gold solvent extraction raffinate and wash water.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold pro duced by solvent extrac tion	
Copper Cyanide (total)	0.806 0.126	0.384 0.050
Zinc	0.643	0.265
Combined metals	0.189	
Ammonia (as N)	83.980	36.920

(g) Gold spent electrolyte.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold produced by electrolysis	
Copper	0.011	0.005
Cyanide (total)	0.002	0.001
Zinc	0.009	0.004
Combined metals	0.300	
Ammonia (as N)	1.160	0.510

(h) Gold precipitation and filtration.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold precipitated	
Copper	5.632 0.880 4.488 1.320 586.500	2.684 0.352 1.848 257.800

(i) Platinum precipitation and filtration.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of platinum precipitated	
Copper	6.656 1.040 5.304 1.560 693.200	3.172 0.416 2.184 304.700

(j) Palladium precipitation and filtration.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of platinum precipitated	
Copper	7.680 1.200 6.120 1.800 799.800	3.660 0.480 2.520 351.600

$\left(k\right)$ Other platinum group metals precipitation and filtration.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of othe platinum group metal precipitated	
Copper	6.656 1.040 5.304 1.560 693.200	3.172 0.416 2.184 304.700

(l) Spent solution from PGC salt production.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of gold contained in PGC product	
Copper	1.152 0.180 0.918 0.270	0.549 0.072 0.378

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N)	120.000	52.740

(m) Equipment and floor wash.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/troy ounce of precious metals, including silver produced in refinery	
Copper	0.000 0.000 0.000 0.000	0.000 0.000 0.000
Ammonia (as N)	0.000	0.000

(n) Preliminary Treatment.

PSNS FOR THE SECONDARY PRECIOUS METALS SUBCATEGORY

Maximum for any 1 day	Maximum for monthly averge
mg/troy ounce of total pre cious metals produced through this operation	
64.000 10.000	30.500 4.000
51.000	21.000
15.000	
6665.000	2930.000
	mg/troy ounce cious meta through this 64.000 10.000 51.000 15.000

 $[50\ FR\ 38365,\ Sept.\ 20,\ 1985,\ as\ amended\ at\ 55\ FR\ 31711–31713,\ Aug.\ 3,\ 1990]$

§421.267 [Reserved]

Subpart Y—Primary Rare Earth Metals Subcategory

Source: $50 \ FR \ 38371$, Sept. 20, 1985, unless otherwise noted.

§ 421.270 Applicability: Description of the primary rare earth metals subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of rare earth metals and mischmetal by primary rare earth metals facilities processing rare earth metal oxides, chlorides, and fluorides.

§ 421.271 Specialized definitions.

In addition to what is provided below:

(a) The general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

(b) The term *rare earth metals* refers to the elements scandium, yttrium, and lanthanum to lutetium, inclusive.

(c) The term *mischmetal* refers to a rare earth metal alloy comprised of the natural mixture of rare earths to about 94–99 percent. The balance of tha alloy includes traces of other elements and one to two percent iron.

§§ 421.272-421.273 [Reserved]

§ 421.274 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Dryer Vent Water Quench and Scrubber.

NSPS FOR THE PRIMARY RARE EARTH METALS
SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of mischmetal produced from wet rare earth chlorides	
Hexachlorobenzene	0.042 1.544 1.168 2.295 62.600	0.042 0.626 0.542 1.544 50.080

¹ Within the range of 7.5 to 10.0 at all times.

(b) Dryer vent caustic wet air pollution control.

NSPS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of mischmetal pro duced from wet rare eart chlorides	
Hexachlorobenzene	0.007 0.272 0.206 0.404 11.010	0.007 0.110 0.095 0.272 8.808

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NSPS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Electrolytic cell water quench and scrubber.

NSPS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of total mischmeta produced	
Hexachlorobenzene	0.094 3.474 2.629 5.165 140.900	0.094 1.409 1.221 3.474 112.700

¹ Within the range of 7.5 to 10.0 at all times.

(d) Electrolytic cell caustic wet air pollution control.

NSPS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ls per million otal mischmetal
Hexachlorobenzene	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000
Total suspended solidspH	0.000 (¹)	0.000 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Sodium hypochlorite filter backwash.

NSPS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1	Maximum for monthly
	day	average
	mg/kg (pounds per millior pounds) of tota mischmetal produced	
Hexachlorobenzene	0.004	0.004
Chromium (total)	0.134	0.054
Lead	0.101	0.047
Nickel	0.199	0.134

NSPS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Total suspended solidspH	5.430 (¹)	4.334 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.275 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in primary rare earth metals process wastewater introduced into a POTW must not exceed the following values:

(a) Dryer vent water quench scrubber.

PSES FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of mischmetal produced from wet rare earth chlorides	
Hexachlorobenzene	0.042 1.544 1.168 2.295	0.042 0.626 0.542 1.544

(b) Dryer Vent Caustic Wet Air Pollution Control.

PSES FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of mischmeta produced from wet rare earth chlorides	
Hexachlorobenzene	0.007 0.272 0.206 0.404	0.007 0.110 0.095 0.272

 $% \left(1\right) =\left(1\right) \left(1$

PSES FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) mischmetal	
Hexachlorobenzene	0.094 3.474 2.629 5.165	0.094 1.409 1.221 3.474

(d) Electrolytic cell caustic wet air pollution control.

PSES FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tota mischmetal produced	
Hexachlorobenzene	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

(e) Sodium hypochlorite filter backwash.

PSES FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) mischmetal	
Hexachlorobenzene	0.004 0.134 0.101 0.199	0.004 0.054 0.047 0.134

\$421.276 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary rare earth metals process wastewater introduced into a POTW shall not exceed the following values:

(a) Dryer vent water quench and scrubber.

PSNS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of mischmeta produced from wet rare earth chlorides	
Hexachlorobenzene	0.042	0.042
Chromium (total)	1.544	0.626
Lead	1.168	0.542
Nickel	2.295	1.544

(b) Dryer vent caustic wet air pollution control.

PSNS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of mischmetal produced from wet rare earth chlorides	
Hexachlorobenzene	0.007	0.007
Chromium (total)	0.272	0.110
Lead	0.206	0.095
Nickel	0.404	0.272

(c) Electrolytic cell water quench and scrubber.

PSNS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of total mischmetal produced	
Hexachlorobenzene	0.094	0.094
Chromium (total)	3.474	1.409
Lead	2.629	1.221
Nickel	5.165	3.474

(d) Electrolytic cell caustic wet air pollution control.

PSNS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) mischmetal	
Hexachlorobenzene	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

(e) Sodium hypochlorite filter backwash.

PSNS FOR THE PRIMARY RARE EARTH METALS SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) mischmetal	of total
Hexachlorobenzene	0.004 0.134 0.101 0.199	0.004 0.054 0.047 0.134

§421.277 [Reserved]

Subpart Z—Secondary Tantalum Subcategory

Source: $50~\mathrm{FR}$ 38374, Sept. 20, 1985, unless otherwise noted.

§ 421.280 Applicability: Description of the secondary tantalum subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of tantalum at secondary tantalum facilities.

§ 421.281 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.282 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point

source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Tantalum alloy leach and rinse.

BPT LIMITATIONS FOR THE SECONDARY
TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of der produced	tantalum pow-
Copper	438.100 96.850 442.800 336.700	230.600 46.120 292.900 140.700
Tantalum Total suspended solidspH	103.800 9,455.000 (¹)	4,497.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Capacitor leach and rinse.

BPT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of tantalur powder produced from leaching	
Copper	38.380	20.200
Lead	8.484	4.040
Nickel	38.780	25.650
Zinc	29.490	12.320
Tantalum	9.090	
Total suspended solids	828.200	393.900
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Tantalum sludge leach and rinse.

BPT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of equivaler pure tantalum powder produced	
Copper	390.100	205.300
Lead	86.230	41.060
Nickel	394.200	260.700
Zinc	299.700	125.200
Tantalum	92.390	
Total suspended solids	8,417.000	4,003.000

BPT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Tantalum powder acid wash and rinse.

BPT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per milli pounds) of tantalu powder produced	
Copper	0.665	0.350
Lead	0.147	0.070
Nickel	0.672	0.445
Zinc	0.511	0.214
Tantalum	0.158	
Total suspended solids	14.350	6.825
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Leaching wet air pollution control.

BPT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) o	ds per million of equivalent alum powder
Copper	9.272	4.880
Lead	2.050	0.976
Nickel	9.370	6.198
Zinc	7.125	2.977
Tantalum	2.196	
Total suspended solids	200.100	95.160
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.283 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall

achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Tantalum alloy leach and rinse.

BAT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tantalur powder produced	
Copper	295.200	140.700
Lead	64.570	29.980
Nickel	126.800	85.320
Zinc	235.200	96.850
Tantalum	103.800	

(b) Capacitor leach and rinse.

BAT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalun powder produced fron leaching	
Copper	25.860	12.320
Lead	5.656	2.626
Nickel	11.110	7.474
Zinc	20.600	8.484
Tantalum	9.090	

(c) Tantalum sludge leach and rinse.

BAT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of equivalen pure tantalum powde produced	
Copper	262.800	125.200
Lead	57.480	26.690
Nickel	112.900	75.960
Zinc	209.400	86.230
Tantalum	92.390	

(d) Tantalum powder acid wash and rinse.

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BAT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of tantalu powder produced	
Copper	0.448	0.214
Lead	0.098	0.046
Nickel	0.193	0.130
Zinc	0.357	0.147
Tantalum	0.158	

(e) Leaching wet air pollution control.

BAT LIMITATIONS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of equivaler pure tantalum powde produced	
Copper	6.246	2.977
Lead	1.366	0.634
Nickel	2.684	1.806
Zinc	4.978	2.050
Tantalum	2.196	

§ 421.284 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Tantalum alloy leach and rinse.

NSPS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) powder pro	of tantalum
Copper	295.200 64.570	140.700 29.980
Nickel	126.800	85.320
Zinc	235.200	96.850
Tantalum	103.800	
Total suspended solids	3,459.000	2,767.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Capacitor leach and rinse.

NSPS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tantalum powder produced from leaching	
Copper	25.860	12.320
Lead	5.656	2.626
Nickel	11.110	7.474
Zinc	20.600	8.484
Tantalum	9.090	
Total suspended solids	303.000	242.400
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Tantalum sludge leach and rinse.

NSPS FOR THE SECONDARY TANTALUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of equivalent pure tantalum powder produced	
262.800 57.480 112.900 209.400	125.200 26.690 75.960 86.230
92.390 3,080.000 (¹)	2,464.000 (¹)
	for any 1 day mg/kg (pounds) copure tanta produced 262.800 57.480 112.900 209.400 92.390 3,080.000

¹ Within the range of 7.5 to 10.0 at all times.

(d) Tantalum powder acid wash and rinse.

NSPS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tantalum powder produced	
Copper	0.448 0.098 0.193 0.357 0.158 5.250	0.214 0.046 0.130 0.147
pH	(1)	4.200 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Leaching wet air pollution control.

NSPS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) o	ds per million of equivalent alum powder
Copper	6.246	2.977
Lead	1.366	0.634
Nickel	2.684	1.806
Zinc	4.978	2.050
Tantalum	2.196	
Total suspended solids	73.200	58.560
pH	(1)	(1)

 $AA^{1}\,\mbox{Within}$ the range of 7.5 to 10.0 at all times.

§ 421.285 [Reserved]

§ 421.286 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary tantalum process wastewater introduced into a POTW shall not exceed the following values:

(a) Tantalum alloy leach and rinse.

PSNS FOR THE SECONDARY TANTALUM SUBCATEGORY

day average			
Copper 295.200 140.700 Lead 64.570 29.980 Nickel 126.800 85.320 Zinc 235.200 96.850	Pollutant or pollutant property	for any 1	for monthly
Lead 64.570 29.980 Nickel 126.800 85.320 Zinc 235.200 96.850		pounds) of tantalun	
Nickel 126.800 85.320 Zinc 235.200 96.850			140.700
Zinc			
Tantalum 103.800	Zinc	235.200	96.850
	Tantalum	103.800	

(b) Capacitor leach and rinse.

PSNS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds)	ds per million of tantalum oduced from
Copper	25.860	12.320
Lead	5.656	2.626
Nickel	11.110	7.474
Zinc	20.600	8.484
Tantalum	9.090	

(c) Tantalum sludge leach and rinse.

PSNS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of equivalent pure tantalum powder produced	
Copper	262.800	125.200
Lead	57.480	26.690
Nickel	112.900	75.960
Zinc	209.400	86.230
Tantalum	92.390	

(d) Tantalum powder acid wash and

PSNS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tantalum powder produced	
Copper	0.448	0.214
Lead	0.098	0.046
Nickel	0.193	0.130
Zinc	0.357	0.147
Tantalum	0.158	

(e) Leaching wet air pollution control.

PSNS FOR THE SECONDARY TANTALUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of equivalen pure tantalum powde produced	
Copper	6.246	2.977
Lead	1.366	0.634
Nickel	2.684	1.806
Zinc	4.978	2.050
Tantalum	2.196	

§421.287 [Reserved]

Subpart AA—Secondary Tin Subcategory

Source: $50~\mathrm{FR}$ 38376, Sept. 20, 1985, unless otherwise noted.

$\$\,421.290$ Applicability: Description of the secondary tin subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of tin at secondary tin facilities utilizing either pyrometallurgical or hydrometallurgical processes to recover tin from secondary materials.

§ 421.291 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.292 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Tin smelter SO₂ scrubber.

BPT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of crude tapped tin metal produced	
Arsenic	19.220	8.554
Lead	3.863	1.840
Iron	11.040	5.611
Tin	3.495	2.024
Total suspended solids	377.100	179.400
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Dealuminizing rinse.

BPT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day Maximur for month average	
	mg/kg (pounds per millior pounds) of dealuminized scrap produced	
Lead	0.015 0.010 1.225 0.013 1.435	0.007 0.004 0.700 0.008 0.683
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Tin mud acid neutralization filtrate. $\label{eq:condition}$

BPT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Minimum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of neutralized dewatered tin mud pro duced	
Lead	2.120	1.009
Cyanide (total)	1.464	0.606
Fluoride	176.600	100.400
Tin	1.918	1.110
Total suspended solids	206.900	98.420
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

BPT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Minimum for any 1 day	Maximum for monthly average
mg/kg (pounds per millio pounds) of tin hydroxid washed	
5.020 3.466	2.391 1.434
418.400	237.900
4.542	2.630
490.100	233.100
(1)	(1)
	mg/kg (pound pounds) of washed 5.020 3.466 418.400 4.542 490.100

¹ Within the range of 7.5 to 10.0 at all times.

(e) Spent electrowinning solution from new scrap.

BPT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Minimum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of cathode ti produced	
Lead	7.056 4.872 588.000 6.384	3.360 2.016 334.300 3.696
Total suspended solidspH	688.800 (¹)	327.600 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Spent electrowinning solution from municipal solid waste.

BPT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Minimum for any 1 day	Maximum for monthly average	
	mg/kg (pounds per million pounds) of MSW scrap used as raw material		
Lead	0.050 0.035 4.165 0.045 4.879	0.024 0.014 2.368 0.026 2.321	
pH	(1)	(1)	

¹ Within the range of 7.5 to 10.0 at all times.

⁽d) Tin hydroxide wash.

⁽g) Tin hydroxide supernatant from scrap. $\label{eq:gamma}$

BPT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tin metal re- covered from scrap	
Lead	23.370	11.130
Cyanide (total)	16.140	6.677
Fluoride	1,947.000	1,107.000
Tin	21.140	12.240
Total suspended solids	2,281.000	1,085.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Tin hydroxide supernatant from plating solutions and sludges.

BPT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin metal re- covered from plating so- lutions and sludges	
Lead	48.30	23.00
Cyanide (total)	33.35	13.80
Fluoride	4,025.00	2,289.00
Tin	43.70	25.30
Total suspended solids	4,715.00	2,243.00
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Tin hydroxide filtrate.

BPT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin metal produced	
Lead	10.520	5.009
Cyanide (total)	7.263	3.005
Fluoride	876.500	498.400
Tin	9.517	5.510
Total suspended solids	1,027.000	488.400
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.293 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Tin smelter SO₂ scrubber.

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of crude tapped tin produced	
Arsenic	12.790 2.575 11.040 3.495	5.703 1.196 5.611 2.024

(b) Dealuminizing rinse.

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of dealuminized scrap produced	
Lead	0.010 0.007 1.225 0.013	0.005 0.003 0.697 0.008

(c) Tin mud acid neutralization filtrate.

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of neutralized dewatered tin mud pro- duced	
Lead	1.413	0.656
Cyanide (total)	1.009	0.404

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Fluoride	176.600 1.918	100.400 1.110

(d) Tin hydroxide wash.

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin hydroxide washed	
Lead Cyanide (total)	3.347 2.391 418.400	1.554 0.956 237.900
Tin	4.542	2.630

(e) Spent electrowinning solution from new scrap.

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of cathode tir produced	
Lead	4.704 3.360 588.000	2.184 1.344 334.300
Tin	6.384	3.696

(f) Spent electrowinning solution from municipal solid waste.

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of MSW scra used as raw material	
Lead	0.033 0.024 4.165 0.045	0.015 0.010 2.368 0.026

(g) Tin hydroxide supernatant from scrap.

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tin metal re covered from scrap	
Lead	15.580 11.130 1,947.000 21.140	7.233 4.451 1,107.000 21.240

(h) Tin hydroxide supernatant from plating solutions and sludges.

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin metal re covered from plating so lutions and sludges	
Lead	32.20 23.00 4,025.00 43.70	14.95 9.20 2,289.00 25.30

(i) Tin hydroxide filtrate.

BAT LIMITATIONS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tin metal pro duced	
Lead	7.012 5.009 876.500 9.517	3.256 2.004 498.400 5.510

§ 421.294 Standards of performance for

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Tin smelter SO₂ scrubber.

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NSPS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of crude tapped tin produced	
Arsenic	12.790	5.703
Lead	2.575	1.196
Iron	11.040	5.611
Tin	3.495	2.024
Total suspended solids	138.000	110.400
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Dealuminizing rinse.

NSPS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average	
	mg/kg (pounds per millior pounds) of dealuminized scrap produced		
Lead	0.010	0.005	
Cyanide (total)	0.007	0.003	
Fluoride	1.225	0.697	
Tin	0.013	0.008	
Total suspended solids	0.525	0.420	
pH	(1)	(1)	

 $^{^{\}mbox{\scriptsize 1}}\mbox{\ensuremath{\mbox{Within}}}$ the range of 7.5 to 10.0 at all times.

(c) Tin mud acid neutralization filtrate.

NSPS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of neutralize dewatered tin mud pro duced	
Lead	1.413 1.009 176.600 1.918 75.710	0.656 0.404 100.400 1.110 60.560 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Tin hydroxide wash.

NSPS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tin hydroxio washed	
Lead	3.347	1.554

NSPS FOR THE SECONDARY TIN SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cyanide (total)	2.391 418.400 4.542 179.300 (1)	0.956 237.900 2.630 143.400 (1)

 $^{^{\}rm 1}\,\text{Within}$ the range of 7.5 to 10.0 at all times.

(e) Spent electrowinning solution from new scrap.

NSPS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million cathode tin
Lead	4.704 3.360 588.000 6.384 252.000 (¹)	2.184 1.344 334.300 3.696 201.600 (1)

¹ Within the range of 7.5 to 10.0 at all times.

$\begin{array}{ll} \hbox{ (f)} & Spent & electrowinning & solution \\ from municipal solid waste. \end{array}$

NSPS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of MSW scrap used as raw material	
Lead	0.033 0.024 4.165 0.045 1.785	0.015 0.010 2.368 0.026 1.428
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Tin hydroxide supernatant from scrap. $\label{eq:constraint}$

NSPS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin metal re covered from scrap	
Lead	15.580	7.233
Cyanide (total)	11.130	4.451
Fluoride	1,947.000	1,107.000
Tin	21.140	12.240

NSPS FOR THE SECONDARY TIN SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Total suspended solidspH	834.600 (¹)	667.700 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Tin hydroxide supernatant from plating solutions and sludges.

NSPS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million tin metal re- m plating so- sludges
Lead	32.20	14.95
Cyanide (total)	23.00	9.20
Fluoride	4,025.00	2,289.00
Tin	43.70	25.30
Total suspended solids	1,725.00	1,380.00
<u>pH</u>	(1)	(1)

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(i) Tin hydroxide filtrate.

NSPS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million tin metal pro-
Lead	7.012	3.256
Cyanide (total)	5.009	2.004
Fluoride	876.500	498.400
Tin	9.517	5.510
Total suspended solids	375.700	300.500
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.295 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in secondary tin process wastewater introduced into a POTW must not exceed the following values:

(a) Tin smelter SO₂ scrubber.

PSES FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million crude tapped d
Arsenic Lead Iron	12.790 2.575 11.040 3.495	5.703 1.196 5.611 2.024

(b) Dealuminizing rinse.

PSES FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of dealuminize scrap produced	
Lead	0.010 0.007 1.225 0.013	0.005 0.003 0.697 0.008

(c) Tin mud acid neutralization fil-

PSES FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) o	ds per million f neutralized tin mud pro-
Lead	1.413	0.656
Cyanide (total)	1.009	0.404
Fluoride	176.600	100.400
Tin	1.918	1.110

(d) Tin hydroxide wash.

PSES FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of washed	ds per million tin hydroxide
Lead	3.347 2.391 418.400 4.542	1.554 0.956 237.900 2.630

(e) Spent electrowinning solution from new scrap.

PSES FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million cathode tin
Lead	4.704	2.184
Cyanide (total)	3.360	1.344
Fluoride	588.000	334.300
Tin	6.384	3.696

(f) Spent electrowinning solution from municipal solid waste.

PSES FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of MSW scrap used as raw material	
Lead	0.033 0.024 4.165 0.045	0.015 0.010 2.368 0.026

(g) Tin hydroxide supernatant from scrap.

PSES FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tin metal re- covered from scrap	
Lead	15.580 11.130 1,947.000 21.140	7.233 4.451 1,107.000 12.240

(h) Tin hydroxide supernatant from plating solutions and sludges.

PSES FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin metal re- covered from plating so- lutions and sludges	
Lead	32.20 23.00 4,025.00 43.70	14.95 9.20 2,289.00 25.30

⁽i) Tin hydroxide filtrate.

PSES FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tin metal pro- duced	
Lead Cyanide (total)	7.012 5.009 876.500	3.256 2.004 498.400
Tin	9.517	5.510

§ 421.296 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary tin process wastewater introduced into a POTW shall not exceed the following values:

(a) Tin smelter SO_2 scrubber.

PSNS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of crude tapped tin produced	
Arsenic	12.790	5.703
Lead	2.575	1.196
Iron	11.040	5.611
Tin	3.495	2.024

(b) Dealuminizing Rinse.

PSNS FOR THE SECONDARY TIN SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of dealuminized scrap produced	
0.010 0.007 1.225 0.013	0.005 0.003 0.697 0.008
	mg/kg (pound pounds) of scrap production 0.010 0.007 1.225

⁽c) Tin mud acid neutralization filtrate.

PSNS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million of pounds) of neutralized dewatered tin mud pro- duced	
Lead	1.413 1.009 176.600 1.918	0.656 0.404 100.400 1.110

(d) Tin hydroxide wash.

PSNS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin hydroxide washed	
Lead	3.347	1.554
Cyanide (total)	2.391	0.956
Fluoride	418.400	237.900
Tin	4.542	2.630

(e) Spent electrowinning solution from new scrap.

PSNS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cathode tin produced	
Lead Cyanide (total)	4.704 3.360	2.184 1.344
Fluoride	588.000 6.384	334.300 3.696

(f) Spent electrowinning solution from municipal solid waste.

PSNS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of MSW scrap used as raw material	
Lead	0.033 0.024 4.165 0.045	0.015 0.010 2.368 0.026

(g) Tin hydroxide supernatant from scrap.

PSNS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tin metal re covered from scrap	
Lead	15.580 11.130 1,947.000 21.140	7.233 4.451 1,107.000 12.240

(h) Tin hydroxide supernatant from plating solutions and ludges.

PSNS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin metal re- covered from plating so- lutions and sludges	
Lead	32.20 23.00 4,025.00 43.70	14.95 9.20 2,289.00 25.30

(i) Tin hydroxide filtrate.

PSNS FOR THE SECONDARY TIN SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tin metal pro duced	
Lead	7.012 5.009	3.256 2.004
Cyanide (total)	876.500	498.400
Tin	9.517	5.510

§ 421.297 [Reserved]

Subpart AB—Primary and Secondary Titanium Subcategory

SOURCE: $50 \ \mathrm{FR} \ 38380$, Sept. $20, \ 1985$, unless otherwise noted.

§ 421.300 Applicability: Description of the primary and secondary titanium subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of titanium at primary and secondary titanium facilities. Facilities which only practice vacuum distillation for sponge purification and

which do not practice electrolytic recovery of magnesium are exempt from regulations. All other primary and secondary titanium facilities are covered by these regulations.

§421.301 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.302 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Chlorination off-gas wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million iCl ₄ produced
Chromium (total)	0.412 0.393 1.797 0.880 18.720 38.380 (¹)	0.168 0.187 1.189 0.384 11.230 18.250

AA¹Within the range of 7.5 to 10.0 at all times.

(b) Chlorination area-vent wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of TiCl ₄ produced	
0.412 0.458 0.437 1.997 0.978	0.168 0.187 0.208 1.321 0.426 12.480
	for any 1 day mg/kg (pound pounds) of Ti 0.412 0.458 0.437 1.997

BPT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY TITANIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Total suspended solidspH	42.640 (¹)	20.280 (¹)

AA1Within the range of 7.5 to 10.0 at all times.

(c) $TiCl_4$ handling wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ handled	
Chromium (total)	0.082 0.079 0.359 0.176 3.740 7.667 (¹)	0.034 0.037 0.237 0.077 2.244 3.647

AA1Within the range of 7.5 to 10.0 at all times.

(d) Reduction area wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	18.170 17.350 79.300 38.820 826.100 1,693.000	7.435 8.261 52.450 16.930 495.600 805.400 (1)

AA1Within the range of 7.5 to 10.0 at all times.

(e) Melt cell wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of titanium pro duced	
Chromium (total)	9.352	3.826
Lead	8.927	4.251

BPT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY TITANIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Nickel	40.810	26.990
Titanium	19.980	8.714
Oil and grease	425.100	255.000
Total suspended solids	871.400	414.500
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

 $\begin{tabular}{ll} \begin{tabular}{ll} (f) & Chlorine & lique faction & wet & air & pollution & control. \end{tabular}$

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	130.900	53.560
Lead	125.000	59.510
Nickel	571.300	377.900
Titanium	279.700	122.000
Oil and grease	5,951.000	3,571.000
Total suspended solids	12,200.000	5,702.000
pH	(1)	(1)

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(g) Sodium reduction container reconditioning wash water.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	0.564 0.538 2.461 1.205 25.640	0.231 0.256 1.628 0.526 15.380
Total suspended solids	52.560	25.000
рН	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Chip crushing wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pro- duced	
Chromium (total)	10.090 9.627 44.010 21.550 458.400 939.800 (¹)	4.126 4.584 29.110 9.398 275.100 447.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Acid leachate and rinse water.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of duced	ds per million titanium pro-
Chromium (total)	5.210 4.973 22.730 11.130 236.800 485.400 (¹)	2.131 2.368 15.040 4.854 142.100 230.900 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

 $(j)\ Sponge\ crushing\ and\ screening$ wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound	ds per million titanium pro-
Chromium (total)	2.847 2.717 12.420 6.082 129.400 265.300 (¹)	1.165 1.294 8.217 2.653 77.640 126.200 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Acid pickle and wash water.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million anium pickled
Chromium (total)	0.027 0.026 0.117 0.057 1.220 2.501	0.011 0.012 0.077 0.025 0.732 1.190

¹ Within the range of 7.5 to 10.0 at all times.

(l) Scrap milling wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average	
	mg/kg (pounds per million pounds) of scrap milled		
Chromium (total)	0.995 0.950 4.341 2.125 45.220 92.700	0.407 0.452 2.871 0.927 27.130 44.090	

¹ Within the range of 7.5 to 10.0 at all times.

(m) Scrap detergent wash water.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of scrap washed	
Chromium (total)	7.948 7.587 34.680 16.980 361.300 740.600	3.252 3.613 22.940 7.406 216.800 352.300

 $^{^{\}mbox{\tiny 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(n) Casting crucible wash water.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium cast	
Chromium (total)	0.210 0.200 0.916 0.448 9.540 19.560	0.086 0.095 0.606 0.196 5.724 9.302
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(o) Casting contact cooling water.

BPT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
	ds per million itanium cast
321.100	131.400
306.500	145.900
1,401.000	926.800
685.900	299.200
14,590.000	8,757.000
29,920.000	14,230.000
(1)	(1)
	for any 1 day mg/kg (poun- pounds) of t 321.100 306.500 1,401.000 685.900 14,590.000 29,920.000

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.303 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Chlorination off-gas wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ produced	
Chromium (total)	0.346 0.262 0.515 0.496	0.140 0.122 0.346 0.215

(b) Chlorination area-vent wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ produced	
Chromium (total)	0.385 0.291 0.572 0.551	0.156 0.135 0.385 0.239

(c) $TiCl_4$ handling wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ handled	
Chromium (total)	0.069 0.052 0.103 0.099	0.028 0.024 0.069 0.043

(d) Reduction area wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium produced	
Chromium (total) Lead Nickel	1.528 1.156 2.272	0.620 0.537 1.528

BAT LIMITATIONS FOR THE PRIMARY AND SEC-ONDARY TITANIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Titanium	2.189	0.950

(e) Melt cell wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pro duced	
Chromium (total)	0.787	0.319
Lead	0.595	0.276
Nickel	1.169	0.787
Titanium	1.127	0.489

(f) Chlorine lique faction wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of titanium pro duced	
Chromium (total)	11.010	4.463
Lead	8.332	3.868
Nickel	16.370	11.010
Titanium	15.770	6.844

(g) Sodium reduction container reconditioning wash water.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	0.474	0.192
Lead	0.359	0.167
Nickel	0.705	0.474
Titanium	0.679	0.295

(h) Chip crushing wet air pollution control. $\label{eq:control}$

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of duced	ds per million titanium pro-
Chromium (total)	0.848	0.344
Lead	0.642	0.298
Nickel	1.261	0.848
Titanium	1.215	0.527

(i) Acid leachate and rinse water.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of titanium pro duced	
Chromium (total)	4.381	1.776
Lead	3.315	1.539
Nickel	6.512	4.381
Titanium	6.275	2.723

(j) Sponge crushing and screening wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	0.239 0.181 0.356 0.343	0.097 0.084 0.239 0.149

(k) Acid pickle and wash water.

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BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million anium pickled
Chromium (total)	0.023 0.017 0.034 0.032	0.009 0.008 0.023 0.014

(l) Scrap milling wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of scrap milled	
Chromium (total) Lead Nickel Titanium	0.084 0.064 0.125 0.120	0.034 0.030 0.084 0.052

(m) Scrap detergent wash water.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of scrap washed	
Chromium (total)	6.684 5.058 9.935 9.574	2.710 2.348 6.684 4.155

(n) Casting crucible wash water.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium cast	
Chromium (total)	0.176 0.134 0.262 0.253	0.072 0.062 0.176 0.110

(o) Casting contact cooling water.

BAT LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium cast	
Chromium (total)	27.000	10.950
Lead	20.430	9.486
Nickel	40.140	27.000
Titanium	38.68	16.78

§ 421.304 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Chlorination off-gas wet air pollution control.

NSPS LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million iCl ₄ produced
Chromium (total)	0.346	0.140
Lead	0.262	0.122
Nickel	0.515	0.346
Titanium	0.496	0.215
Oil and grease	9.360	9.360
Total suspended solids	14.040	11.230
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Chlorination area-vent wet air pollution control.

NSPS LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of Ti	ds per million iCl ₄ produced
Chromium (total)	0.385	0.156
Lead	0.291	0.135
Nickel	0.572	0.385
Titanium	0.551	0.239
Oil and grease	10.400	10.400
Total suspended solids	15.600	12.480
pH	(1)	(1)

¹ Within the range of 7.0 to 10.0 at all times.

(c) $TiCl_4$ handling wet air pollution control.

NSPS LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million TiCl ₄ handled
Chromium (total)	0.069 0.052 0.103 0.099 1.870	0.028 0.024 0.069 0.043 1.870
Total suspended solidspH	2.805 (¹)	2.244 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Reduction area wet air pollution control

NSPS LIMITATIONS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pound pounds) of duced	ds per million titanium pro-
1.528 1.156 2.272 2.189	0.620 0.537 1.528 0.950
41.300	41.300
61.950	49.560
(¹)	(¹)
	for any 1 day mg/kg (pound pounds) of duced 1.528 1.156 2.272 2.189 41.300 61.950

¹ Within the range of 7.5 to 10.0 at all times.

(e) Melt cell wet air pollution control.

NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	0.787 0.595 1.169 1.127 21.260 31.890	0.319 0.276 0.787 0.489 21.260 25.510

¹ Within the range of 7.5 to 10.0 at all times.

(f) Chlorine liquefaction wet air pollution control.

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NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of duced	d per million titanium pro-
Chromium (total)	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Sodium reduction container reconditioning wash.

NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		d per million titanium pro-
Chromium (total)	0.474	0.192
Lead	0.359	0.167
Nickel	0.705	0.474
Titanium	0.679	0.295
Oil and grease	12.820	12.820
Total suspended solids	19.230	15.380
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Chip crushing wet air pollution control. $\label{eq:control}$

NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		d per million titanium pro-
Chromium (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Titanium	0.000	0.000
Oil and grease	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		d per million titanium pro-
Chromium (total)	4.381 3.315 6.512 6.275 118.400	1.776 1.539 4.381 2.723 118.400
Total suspended solidspH	177.600 (¹)	142.100 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Sponge crushing and screening wet air pollution control.

NSPS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Observations (testal)	0.000	0.000
Chromium (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Titanium	0.000	0.000
Oil and grease	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Acid pickle and wash water.

NSPS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of tita	ds per million anium pickled
Chromium (total)	0.023	0.009
Lead	0.017	0.008
Nickel	0.034	0.023
Titanium	0.032	0.014
Oil and grease	0.610	0.610
Total suspended solids	0.915	0.732
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(l) Scrap milling wet air pollution control.

⁽i) Acid leachate and rinse water.

NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million scrap milled
Chromium (total)	0.000 0.000 0.000 0.000 0.000 0.000 (¹)	0.000 0.000 0.000 0.000 0.000 0.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(m) Scrap detergent wash water.

NSPS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million crap washed
Chromium (total)	6.684 5.058 9.935 9.574 180.600 271.000	2.710 2.348 6.684 4.155 180.600 216.000

¹ Within the range of 7.5 to 10.0 at all times.

(n) Casting crucible wash water.

NSPS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million itanium cast
Chromium (total)	0.176 0.134 0.262 0.253 4.770 7.155	0.072 0.062 0.176 0.110 4.770 5.724

¹ Within the range of 7.5 to 10.0 at all times.

(o) Casting contact cooling water.

NSPS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million itanium cast
Chromium (total)	27.000	10.950
Lead	20.430	9.486
Nickel	40.140	27.000
Titanium	38.680	16.780
Oil and grease	729.700	729.700
Total suspended solids	1,095.000	875.700
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.305 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in primary and secondary titanium process wastewater introduced into a POTW must not exceed the following values:

(a) Chlorination off-gas wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ produced	
Chromium (total)	0.346 0.262	0.140 0.122
Nickel	0.515	0.346
Titanium	0.496	0.215

(b) Chlorination Area-vent wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ produced	
Chromium (total)	0.385 0.291 0.572 0.551	0.156 0.135 0.385 0.239

(c) $TiCl_4$ handling wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ handled	
Chromium (total)	0.069 0.052 0.103 0.099	0.028 0.024 0.069 0.043

(d) Reduction area wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pro duced	
Chromium (total)	1.528 1.156 2.272 2.189	0.620 0.537 1.528 0.950

(e) Melt cell wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of titanium pro duced	
Chromium (total)	0.787 0.595 1.169 1.127	0.319 0.276 0.787 0.489

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(f) Chlorine liquefaction wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1	Maximum for monthly
- Ondiant or politicant property	day	average
	mg/kg (pounds per milli pounds) of titanium pounds	
Chromium (total)	11.010	4.463
Lead	8.332	3.868
Nickel	16.370	11.010
Titanium	15.770	6.844

(g) Sodium reduction container reconditioning wash water.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of titanium pro duced	
Chromium (total)	0.474 0.359 0.705 0.679	0.192 0.167 0.474 0.295

(h) Chip crushing wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of titanium pro- duced	
Chromium (total) Lead Nickel Titanium	0.848 0.642 1.261 1.215	0.344 0.298 0.848 0.527

(i) Acid leachate and rinse water.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	4.381	1.776

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Lead	3.315	1.539
Nickel	6.512	4.381
Titanium	6.275	2.723

(j) Sponge crushing and screening wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of titanium pro- duced	
Chromium (total)	0.239	0.097
Lead	0.181	0.084
Nickel	0.356	0.239
Titanium	0.343	0.149

(k) Acid pickle and wash water.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pickled	
Chromium (total)	0.023	0.009
Lead	0.017	0.008
Nickel	0.034	0.023
Titanium	0.032	0.014

(l) Scrap milling wet air pollution control.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of scrap milled	
0.084	0.034 0.030
0.125	0.084
0.120	0.052
	mg/kg (poun- pounds) of 0.084 0.064 0.125

(m) Scrap detergent wash water.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of s	ds per million crap washed
Chromium (total)	6.684 5.058 9.935 9.574	2.710 2.348 6.684 4.155

(n) Casting crucible wash water.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium cast	
Chromium (total)	0.176	0.072
Lead	0.134	0.062
Nickel	0.262	0.176
Titanium	0.253	0.110

(o) Casting contact cooling water.

PSES FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium cast	
Chromium (total) Lead Nickel	27.000 20.430 40.140	10.950 9.486 27.000
Titanium	38.680	16.780

§ 421.306 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary and secondary titanium process wastewater introduced into a POTW shall not exceed the following values:

(a) Chlorination off-gas wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million iCl ₄ produced
Chromium (total)	0.346 0.262 0.515 0.496	0.140 0.122 0.346 0.215

(b) Chlorination area-vent wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million iCl ₄ produced
Chromium (total)	0.385 0.291 0.572 0.551	0.156 0.135 0.385 0.239

(c) $TiCl_4$ handling wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of TiCl ₄ handled	
Chromium (total)	0.069 0.052 0.103 0.099	0.028 0.024 0.069 0.043

(d) Reduction area wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	1.528 1.156 2.272	0.620 0.537 1.528

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PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Titanium	2.189	0.950

(e) Melt cell wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	0.787	0.319
Lead	0.595	0.276
Nickel	1.169	0.787
Titanium	1.127	0.489

(f) Chlorine lique faction wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of duced	ds per million titanium pro-
Chromium (total)	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

(g) Sodium reduction container reconditioning wash water.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of titanium pro- duced	
Chromium (total)	0.474	0.192
Lead	0.359	0.167
Nickel	0.705	0.474
Titanium	0.679	0.295

(h) Chip crushing wet air pollution control. $\label{eq:control}$

PSNS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Titanium	0.000	0.000

(i) Acid leachate and rinse water.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	4.381	1.776
Lead	3.315	1.539
Nickel	6.512	4.381
Titanium	6.275	2.723

(j) Sponge crushing and screening wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million titanium pro-
Chromium (total)	0.000 0.000	0.000 0.000
Nickel Titanium	0.000 0.000	0.000 0.000

(k) Acid pickle and wash water.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of tit	ds per million anium pickled
Chromium (total)	0.023 0.017 0.034 0.032	0.009 0.008 0.023 0.014

(l) Scrap milling wet air pollution control.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of	ds per million scrap milled
Chromium (total)LeadNickelTitanium	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

(m) Scrap detergent wash water.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million crap washed
Chromium (total)	6.684 5.058 9.935 9.574	2.710 2.348 6.684 4.155

(n) Casting crucible wash water.

PSNS FOR THE PRIMARY AND SECONDARY TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million itanium cast
Chromium (total)LeadNickelTitanium	0.176 0.134 0.262 0.253	0.072 0.062 0.176 0.110

(o) Casting contact cooling water.

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PSNS FOR THE PRIMARY AND SECONDARY
TITANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of t	ds per million itanium cast
Chromium (total)	27.000	10.950
Lead	20.430	9.486
Nickel	40.140	27.000
Titanium	38.680	16.780

§421.307 [Reserved]

Subpart AC—Secondary Tungsten and Cobalt Subcategory

Source: $50~\mathrm{FR}$ 38386, Sept. 20, 1985, unless otherwise noted.

§ 421.310 Applicability: Description of the secondary tungsten and cobalt subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of tungsten or cobalt at secondary tungsten and cobalt facilities processing tungsten or tungsten carbide scrap raw materials.

$\S 421.311$ Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.312 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Tungsten detergent wash and rinse.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of tungsten ed
Copper	0.371 0.374	0.195 0.248
Ammonia (as N)	25.990	11.430
Cobalt	0.768	0.337
Tungsten	1.357	0.542
Oil and grease	3.900	2.340
Total suspended solids	7.995	3.803
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Tungsten leaching acid.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million tungsten pro-
Copper	4.885 4.937 342.700 10.130 17.890 51.420	2.571 3.265 150.700 4.448 7.147 30.850
Total suspended solidspH	105.400 (¹)	50.140 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Tungsten post-leaching wash and rinse.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
	ds per million tungsten pro-
0.772	5.143
9.875	6.532
685.600	301.400
20.263	8.897
35.800	14.300
102.900	61.720
210.900	100.300
(1)	(1)
	mg/kg (pound pounds) of duced 9.772 9.875 685.600 20.263 35.800 102.900 210.900

¹ Within the range of 7.5 to 10.0 at all times.

⁽d) Synthetic scheelite filtrate.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

	Maximum for monthly average ds per million of synthetic oduced
pounds)	of synthetic
31.660	16.660
31.990	21,160
2,221.000	976.300
65.644	28.824
116.000	46.320
333.200	200.000
683.100	324.900
(¹)	(1)
	31.660 31.990 2,221.000 65.644 116.000 333.200 683.100

¹ Within the range of 7.5 to 10.0 at all times.

(e) Tungsten carbide leaching wet air pollution control.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten car- bide scrap leached	
Copper	3.327 3.362 233.400 6.899 12.190 35.020 71.790	1.751 2.224 102.600 3.029 4.868 21.010 34.150

 $^{^{\}rm 1}\,\mbox{Within}$ the range of 7.5 to 10.0 at all times.

(f) Tungsten carbide wash water.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungsten car- bide produced	
Copper	15.830 16.000 1,111.000 32.832 58.000 166.700 341.700	8.333 10.580 488.300 14.416 23.170 100.000 162.500
pH	341.700 (1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Cobalt sludge leaching wet air pollution control.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt pro- duced from cobalt sludge	
Copper	67.990	35.780
Nickel	68.700	45.440
Ammonia (as N)	4,770.000	2,097.000
Cobalt	140.977	61.901
Tungsten	249.000	99.470
Oil and grease	715.600	429.400
Total suspended solids	1,467.000	697.700
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Crystallization decant.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper Nickel	79.140 79.970 5,552.000 164.101 289.900 833.000 1,708.000	41.650 52.900 2,441.000 72.055 115.800 499.800 812.200
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Acid wash decant.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
	ds per million balt produced
26 220	19.060
36.600	24.210
2,541.000	1,117.000
75.104	32.977
132.700	52.990
381.300	228.800
781.600	371.700
(1)	(1)
	mg/kg (pount pounds) of co 36.220 36.600 2,541.000 75.104 132.700 381.300 781.600

¹ Within the range of 7.5 to 10.0 at all times.

(j) Cobalt hydroxide filtrate.

§421.313

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of co	
Copper	107.600 108.800 7,551.000 223.189 394.300 1,133.000 2,323.000	56.650 71.940 3,320.000 97.999 157.500 679.800 1,105.000

¹ Within the range of 7.5 to 10.0 at all times.

(k) Cobalt hydroxide filter cake wash.

BPT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million balt produced
0	007.000	400.400
Copper	207.200	109.100
Nickel	209.400	138.500
Ammonia (as N)	14,530.000	6,389.000
Cobalt	429.598	188.631
Tungsten	758.900	303.100
Oil and grease	2,181.000	1,309.000
Total suspended solids	4,471.000	2,126.000
pH	(1)	(¹)

 $^{^{\}mbox{\tiny 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

[50 FR 38386, Sept. 20, 1985, as amended at 55 FR 31713, 31714, Aug. 3, 1990]

§ 421.313 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Tungsten detergent wash and rinse.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungster scrap washed	
Copper	0.250 0.107 25.990 0.538 0.679	0.119 0.072 11.430 0.236 0.302

(b) Tungsten leaching acid.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten pro duced	
Copper	3.291 1.414 342.700 7.096 8.947	1.569 0.951 150.700 3.111 3.985

(c) Tungsten post-leaching wash and

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten pro duced	
Copper	6.583 2.829 685.600 14.194 17.900	3.137 1.903 301.400 6.223 7.972

(d) Synthetic scheelite filtrate.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of synthetic scheelite produced	
Copper	21.330	10.170

BAT LIMITATIONS FOR THE SECONDARY TUNG-STEN AND COBALT SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Nickel	9.164	6.165
Ammonia (as N)	2,221.000 45.984	976.300 20.160
Tungsten	57.980	25.820

(e) Tungsten carbide leaching wet air pollution control. $\,$

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten car- bide scrap leached	
Copper Nickel Ammonia (as N) Cobalt Tungsten	2.241 0.963 233.400 4.833 6.093	1.068 0.648 102.600 2.119 2.714

(f) Tungsten carbide wash water.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungsten car bide produced	
Copper	10.670 4.583 1,111.000 22.999 29.000	5.083 3.083 488.300 10.083 12.920

(g) Cobalt sludge leaching wet air pollution control.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt pro- duced from cobalt sludge	
Copper	45.80 19.68 4,770.00 98.756 124.50	21.83 13.24 2,097.00 43.295 55.46

(h) Crystallization decant.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million balt produced
Copper	53,310 22.910 5,552.000 114.954 144.900	25.410 15.410 2,441.000 50.397 64.560

(i) Acid wash decant.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of cobalt produce	
Copper	24.400 10.490 2,541.000 52.611 66.340	11.630 7.053 1,117.000 23.065 29.550

(j) Cobalt hydroxide filtrate.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produce	
Copper	72.510 31.160 7,551.000 156.346 197.100	34.560 20.960 3,320.000 68.543 87.800

(k) Cobalt hydroxide filter cake wash.

BAT LIMITATIONS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	139.600 59.970 14,530.000 300.094 379.400	66.510 40.340 6,389.000 131.932 169.000

[50 FR 38386, Sept. 20, 1985, as amended at 55 FR 31714, 31715, Aug. 3, 1990]

§ 421.314 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Tungsten detergent wash and rinse.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of tungsten ed
Copper	0.250	0.119
	0.107	0.119
Nickel		
Ammonia (as N)	25.990	11.430
Cobalt	0.538	0.236
Tungsten	0.679	0.302
Oil and grease	1.950	1.950
Total suspended solids	2.925	2.340
pH	(1)	(1)

 $^{^{\}mbox{\scriptsize 1}}\mbox{\ensuremath{\mbox{Within}}}$ the range of 7.5 to 10.0 at all times.

(b) Tungsten leaching acid.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million tungsten pro-
Copper	3.291	1.569
Nickel	1.414	0.951
Ammonia (as N)	342.700	150.700
Cobalt	7.096	3.111
Tungsten	8.947	3.985
Oil and grease	25.710	25.710
Total suspended solids	38.570	30.850
pH	(1)	(1)

 $^{^{\}rm 1}\,\text{Within}$ the range of 7.5 to 10.0 at all times.

(c) Tungsten post-leaching wash and rinse.

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NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million tungsten pro-
Copper Nickel	6.583 2.829 685.600 17.900 14.194 51.430 77.150	3.137 1.903 301.400 7.972 6.223 51.430 61.720

¹ Within the range of 7.5 to 10.0 at all times.

(d) Synthetic scheelite filtrate.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of synthetic oduced
Copper	21.330 9.164	10.170 6.165
Ammonia (as N) Cobalt	2,221.000 45.984	976.300 20.160
Tungsten Oil and grease	57.980 166.600	25.820 166.600
Total suspended solidspH	249.900 (¹)	199.900 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Tungsten carbide leaching wet air pollution control. $\,$

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungsten car- bide scrap leached	
Copper Nickel	2.241 0.963 233.400 4.833 6.093 17.510 26.270	1.068 0.648 102.600 2.119 2.714 17.510 21.010

¹ Within the range of 7.5 to 10.0 at all times.

⁽f) Tungsten carbide wash water.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million tungsten car- ced
Copper	10.670	5.083
Nickel	4.583	3.083
Ammonia (as N)	1,111.000	488.300
Cobalt	22.999	10.083
Tungsten	29.000	12.920
Oil and grease	83.330	83.330
Total suspended solids	125.000	100.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Cobalt sludge leaching wet air pollution control.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million f cobalt pro- cobalt sludge
Conner	45.80	24.02
Copper	45.80	21.83
Nickel	19.68	13.24
Ammonia (as N)	4,770.00	2,097.00
Cobalt	98.756	43.295
Tungsten	124.50	55.46
Oil and grease	357.80	357.80
Total suspended solids	536.70	429.40
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Crystallization decant.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of co	ds per million balt produced
Copper	53.310	25,410
Nickel	22.910	15.410
Ammonia (as N)	5,552.000	2,441.000
Cobalt	114.954	50.397
Tungsten	144.900	64.560
Oil and grease	416.500	416.500
Total suspended solids	624.800	499.800
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million balt produced
Copper	24.400	11.630
Nickel	10.490	7.053
Ammonia (as N)	2,541.000	1,117.000
Cobalt	52.611	23.065
Tungsten	66.340	29.550
Oil and grease	190.600	190.600
Total suspended solids	285.900	228.700
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Cobalt hydroxide filtrate.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million balt produced
Copper	72.510	34.560
Nickel	31.160	20.960
Ammonia (as N)	7,551.000	3,320.000
Cobalt	156.346	68.543
Tungsten	197.100	87.800
Oil and grease	566.500	566.500
Total suspended solids	849.700	679.800
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Cobalt hydroxide filter cake wash.

NSPS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1	Maximum for monthly
	daý	average '
	mg/kg (poun	ds per million
	pounds) of co	balt produced
Copper	139.600	66.510
Nickel	59.970	40.340
Ammonia (as N)	14,530.000	6,389.000
Cobalt	300.094	131.932
Tungsten	379.400	169.000
Oil and grease	1,090.000	1,090.000
Total suspended solids	1,636,000	1,308.000
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

[50 FR 38386, Sept. 20, 1985, as amended at 55 FR 31715, 31716, Aug. 3, 1990]

⁽i) Acid wash decant.

§421.315 Pretreatment standards for existing sources.

Except as provided in 40 CFR 403.7, any existing source subject to this subpart which introduces polutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources. The mass of wastewater pollutants in secondary tungsten and cobalt process wastewater introduced into a POTW shall not exceed the following values:

(a) Tungsten detergent wash and rinse.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten scrap washed	
Copper Nickel Ammonia (as N) Cobalt Tungsten	0.250 0.107 25.990 0.538 0.679	0.119 0.072 11.430 0.236 0.302

(b) Tungsten leaching acid.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of tungsten pro duced	
Copper	3.291 1.414	1.569 0.951
Nickel Ammonia (as N)	342.700	150.700
Cobalt	7.096	3.111
Tungsten	8.947	3.985

 $\ensuremath{\left(c \right)}$ Tungsten post-leaching wash and rinse.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten pro- duced	
Copper	6.583 2.829 685.600	3.137 1.903 301.400

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cobalt Tungsten	14.194 17.900	6.223 7.972

(d) Synthetic scheelite filtrate.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Dellutent or nellutent property	Maximum	Maximum
Pollutant or pollutant property	for any 1	for monthly average
	day	avolugo
	mg/kg (pounds per million pounds) of synthetic scheelite produced	
Copper	21.330	10.170
Nickel	9.164	6.165
Ammonia (as N)	2,221.000	976.300
Cobalt	45.984	20.160
Tungsten	57.980	25.820

(e) Tungsten carbide leaching wet air pollution control.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of bide scrap	ds per million tungsten car-
Copper	2.241 0.963 233.400 4.833 6.093	1.068 0.648 102.600 2.119 2.714

(f) Tungsten carbide wash water.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of bide produc	tungsten car-
Copper	10.670 4.583 1,111.000 22.999 29.000	5.083 3.083 488.300 10.083 12.920

(g) Cobalt sludge leaching wet air pollution control.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
pounds) of	ds per million f cobalt pro- cobalt sludge
45.800	21.830
19.680	13.240
4,770.000	2,097.000
98.756	43.295
124.500	55.460
	for any 1 day mg/kg (pound pounds) of duced from 45.800 19.680 4,770.000 98.756

(h) Crystallization decant.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
CopperNickel	53.310 22.910	25.410 15.410
Ammonia (as N)	5,552.000	2,441.000
Cobalt	114.954	50.397
Tungsten	144.9	64.56

(i) Acid wash decant.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	24.400 10.490 2,541.000 52.611 66.34	11.630 7.053 1,117.000 23.065 29.55

(j) Cobalt hydroxide filtrate.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	72.510 31.160 7,551.000 156.346	34.560 20.960 3,320.000 68.543

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Tungsten	197.1	87.8

(k) Cobalt hydroxide filter cake wash.

PSES FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	139.600 59.970 14,530.000 300.094 379.400	66.510 40.340 6,389.000 131.932 169.000

 $[50\ FR\ 38386,\ Sept.\ 20,\ 1985,\ as\ amended\ at\ 55\ FR\ 31717,\ 31718,\ Aug.\ 3,\ 1990]$

§ 421.316 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary tungsten and cobalt process wastewater introduced into a POTW shall not exceed the following values:

(a) Tungsten detergent wash and rinse.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of tungsten ed
Copper	0.250 0.107 25.990 0.538 0.679	0.119 0.072 11.430 0.236 0.302

(b) Tungsten leaching acid.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungsten pro- duced	
Copper	3.291	1.569
Nickel	1.414	0.951
Ammonia (as N)	342.700	150.700
Cobalt	7.096	3.111
Tungsten	8.947	3.985

(c) Tungsten post-leaching wash and rinse. $\,$

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of tungsten pro duced	
Copper	6.583	3.137
Nickel	2.829	1.903
Ammonia (as N)	685.600	301.400
Cobalt	14.194	6.223
Tungsten	17.900	7.792

(d) Synthetic scheelite filtrate.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of synthetic scheelite produced	
Copper	21.330 9.164 2,221.000 45.984 57.980	10.170 6.165 976.300 20.160 25.820

(e) Tungsten carbide leaching wet air pollution control.

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PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten car- bide scrap leached	
Copper	2.241 0.963 233.400 4.833 6.093	1.068 0.648 102.600 2.119 2.714

(f) Tungsten carbide wash water.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of tungsten can bide produced	
Copper	10.670 4.583 1,111.000 22.999 29.000	5.083 3.083 488.300 10.083 12.920

(g) Cobalt sludge leaching wet air pollution control.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

	1aximum
	r monthly average
mg/kg (pounds p pounds) of co duced from cob	balt pro-
Copper 45.800 Nickel 19.680 Ammonia (as N) 4,770.000 Cobalt 98.756 Tungsten 124.500	21.830 13.240 2,097.000 43.295 55.460
Tungsterr	33.40

(h) Crystallization decant.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper Nickel Ammonia (as N) Cobalt	53.310 22.910 5,552,000 114.954	25.410 15.410 2,441.000 50.397

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Tungsten	144.900	64.560

(i) Acid wash decant.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	24.400	11.630
Nickel	10.490	7.053
Ammonia (as N)	2,541.000	1,117.000
Cobalt	52.611	23.065
Tungsten	66.340	29.550

(j) Cobalt hydroxide filtrate.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	72.510	34.560
Nickel	31.160	20.960
Ammonia (as N)	7,551.000	3,320.000
Cobalt	156.346	68.543
Tungsten	197.100	87.800

(k) Cobalt hydroxide filter cake wash.

PSNS FOR THE SECONDARY TUNGSTEN AND COBALT SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of cobalt produced	
Copper	139.600	66.510
Nickel	59.970	40.430
Ammonia (as N)	14,530.000	6,389.000
Cobalt	300.094	131.932
Tungsten	379.400	169.000

[50 FR 38386, Sept. 20, 1985, as amended at 55 FR 31718, 31719, Aug. 3, 1990]

§421.317 [Reserved]

Subpart AD—Secondary Uranium Subcategory

Source: $50~\mathrm{FR}$ 38392, Sept. 20, 1985, unless otherwise noted.

§ 421.320 Applicability: Description of the secondary uranium subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of uranium (including depleted uranium) by secondary uranium facilities.

§421.321 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.322 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practiacable technology currently available:

(a) Refinery sump filtrate.

BPT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of uranium prod essed in the refinery	
Chromium	32.270	13.200
Copper	139.300	73.340
Nickel	140.800	93.140
Fluoride	2,567.000	1,459.000
Total suspended solids	3,007.000	1,430.000
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Slag leach reslurry.

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BPT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of essed in the	uranium proc-
Chromium (total)	2.009	0.822
Copper	8.675	4.566
Nickel	8.767	5.799
Fluoride	159.800	90.860
Total suspended solids	187.200	89.040
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Solvent extraction raffinate filtrate.

BPT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium proc- essed in the refinery	
Chromium (total)	2.802	1.146
Copper	12.100	6.369
Nickel	12.230	8.089
Fluoride	222.900	126.700
Total suspended solids	261.100	124.200
pH	(1)	(1)

 $^{^{\}rm 1}\,\text{Within}$ the range of 7.5 to 10.0 at all times.

(d) Digestion wet air pollution control.

BPT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium proc essed in the refinery	
Chromium (total)	0.000 0.000	0.000 0.000
Nickel	0.000	0.000
Fluoride	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Evaporation and denitration wet air pollution control.

BPT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium tri- oxide produced	
Chromium (total)	0.000	0.000
Copper	0.000	0.000
Nickel	0.000	0.000
Fluoride	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Hydrofluorination alkaline scrubber.

BPT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium tet rafluoride produced	
Chromium (total)	0.009 0.038 0.038 0.700 0.820 (¹)	0.004 0.020 0.025 0.398 0.390 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Hydrofluorination water scrubber.

BPT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium tet- rafluoride produced	
Chromium (total)	0.000	0.000
Copper	0.000	0.000
Nickel	0.000	0.000
Fluoride	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Magnesium reduction and casting floor wash.

BPT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium pro- duced by magnesium re- duction	
Chromium (total)	0.013	0.005
Copper	0.057	0.030
Nickel	0.058	0.038
Fluoride	1.054	0.599
Total suspended solids	1.234	0.587
pH	(¹)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Laundry wastewater.

BPT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium pro- duced by magnesium re- duction	
Chromium (total)	0.084	0.035
Copper	0.365	0.192
Nickel	0.369	0.244
Fluoride	6.720	3.821
Total suspended solids	7.872	3.744
<u>pH</u>	(1)	(1)

 $^{^{\}rm 1}\,\mbox{Within}$ the range of 7.5 to 10.0 at all times.

§ 421.323 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Refinery sump filtrate.

BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium proc- essed in the refinery	
Chromium (total)	27.14 93.88 40.34 2,567.00	11.00 44.74 27.14 1,459.00

(b) Slag leach reslurry.

BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium proc- essed in the refinery	
Chromium (total)	1.689 5.844 2.511 159.800	0.685 2.785 1.689 90.860

(c) Solvent extraction raffinate filtrate.

BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium proc- essed in the refinery	
Chromium (total)	2.357 8.152 3.503 222.900	0.955 3.885 2.357 126.700

(d) Digestion wet air pollution con-

BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium proc- essed in the refinery	
Chromium (total)	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

(e) Evaporation and denitration wet air pollution control.

BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium tri- oxide produced	
Chromium (total)	0.000	0.000
Copper	0.000	0.000
Nickel	0.000	0.000
Fluoride	0.000	0.000

(f) Hydrofluorination alkaline scrubber.

BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium tet- rafluoride produced	
Chromium (total)	0.007 0.026 0.011 0.700	0.003 0.012 0.007 0.398

(g) Hydrofluorination water scrubber.

BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per millior pounds) of uranium tet- rafluoride produced	
0.000 0.000 0.000	0.000 0.000 0.000 0.000
	pounds) of rafluoride p 0.000 0.000

(h) Magnesium reduction and casting floor wash.

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BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium pro- duced by magnesium re- duction	
Chromium (total)	0.011	0.005
Copper	0.039	0.018
Nickel	0.017	0.011
Fluoride	1.054	0.599

(i) Laundry wastewater.

BAT LIMITATIONS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of uranium pro duced by magnesium re duction	
Chromium (total)	0.036	0.014
Copper	0.123	0.059
Nickel	0.053	0.036
Fluoride	3.360	1.910

§ 421.324 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Refinery sump filtrate.

NSPS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium proc essed in the refinery	
Chromium (total)	27.14	11.00
Copper	93.88	44.74
Nickel	40.34	27.14
Fluoride	2,567.00	1,459.00
Total suspended solids	1,100.00	880.10
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Slag leach reslurry.

NSPS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium proc essed in the refinery	
Chromium (total)	1.689	0.685
Copper	5.844	2.785
Nickel	2.511	1.689
Fluoride	159.800	90.860
Total suspended solids	68.490	54.790
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Solvent extraction raffinate filtrate.

NSPS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium proc essed in the refinery	
Chromium (total)	2.357 8.152	0.955 3.885
Nickel	3.503	2.357
Fluoride	222.900	126.700
Total suspended solids	95.540	76.430
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) Digestion wet air pollution control.

NSPS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium proc essed in the refinery	
Chromium (total)	0.000	0.000
Copper Nickel	0.000 0.000	0.000 0.000
Fluoride	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Evaporation and denitration wet air pollution control

NSPS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium tri- oxide produced	
Chromium (total)	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000
Total suspended solidspH	0.000 (¹)	0.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Hydrofluorination alkaline scrubber.

NSPS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) of rafluoride p	uranium tet-
Chromium (total)	0.007 0.026 0.011 0.700 0.300 (¹)	0.003 0.012 0.007 0.398 0.240

¹ Within the range of 7.5 to 10.0 at all times.

(g) Hydrofluorination water scrubber.

NSPS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium tet- rafluoride produced	
Chromium (total)	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000
Total suspended solidspH	0.000 (¹)	0.000 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

⁽h) Magnesium reduction and casting floor wash.

NSPS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium pro- duced by magnesium re- duction	
Chromium (total)	0.011	0.005
Copper	0.039	0.018
Nickel	0.017	0.011
Fluoride	1.054	0.599
Total suspended solids	0.452	0.361
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Laundry wastewater.

NSPS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium pro- duced by magnesium re- duction	
Chromium (total)	0.036 0.123 0.053 3.360 1.440 (¹)	0.014 0.059 0.036 1.910 1.152 (¹)

¹ Within the range of 7.5 to 10.0 at all times.

§421.325 [Reserved]

§ 421.326 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in secondary uranium process wastewater introduced into a POTW shall not exceed the following values:

40 CFR Ch. I (7-1-03 Edition)

(a) Refinery sump filtrate.

PSNS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of uranium pro- essed in the refinery	
Chromium (total)	27.14 93.88	11.00 44.74
Nickel	40.34	27.14
Fluoride	2,567.00	1,459.00

(b) Slag leach reslurry.

PSNS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of uranium prod essed in the refinery	
Chromium (total)	1.689	0.685
Copper	5.844	2.785
Nickel	2.511	1.689
Fluoride	159.800	90.860

$\ensuremath{\left(c\right) }$ Solvent extraction raffinate filtrate.

PSNS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium proc essed in the refinery	
Chromium (total)	2.357 8.152 3.503 222.900	0.955 3.885 2.357 126.700

(d) Digestion wet air pollution control.

PSNS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of uranium proc essed in the refinery	
Chromium (total)	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

(e) Evaporation and denitration wet air pollution control.

PSNS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium tri-oxide produced	
Chromium (total)	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

(f) Hydrofluorination alkaline scrubber.

PSNS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium tet- rafluoride produced	
Chromium (total)	0.007 0.026 0.011 0.700	0.003 0.012 0.007 0.398

(g) Hydrofluorination water scrubber.

PSNS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of uranium tet- rafluoride produced	
Chromium (total)	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000

(h) Magnesium reduction and casting floor wash.

PSNS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of uranium tr oxide produced	
Chromium (total)	0.011 0.039 0.017 1.054	0.005 0.018 0.011 0.599

(i) Laundry wastewater.

PSNS FOR THE SECONDARY URANIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) of	ds per million uranium pro- nagnesium re-
Chromium (total)	0.036 0.123 0.053 3.360	0.014 0.059 0.036 1.910

§421.327 [Reserved]

Subpart AE—Primary Zirconium and Hafnium Subcategory

Source: $50~\mathrm{FR}$ 38395, Sept. 20, 1985, unless otherwise noted.

§ 421.330 Applicability: Description of the primary zirconium and hafnium subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of zirconium or hafnium at primary zirconium and hafnium facilities. There are two levels of BPT, BAT, NSPS, PSES and PSNS provisions for this subpart. Facilities which only produce zirconium or zirconium/ nickel alloys by magnesium reduction of zirconium dioxide are exempt from regulations. All other facilities are subject to these regulations.

§421.331 Specialized definitions.

For the purpose of this subpart the general definitions, abbreviations, and

methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

§ 421.332 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable technology currently available:

(a) Sand drying wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	0.250	0.102
Cyanide (total)	0.165	0.068
Lead	0.239	0.114
Nickel	1.091	0.721
Ammonia (as N)	75.710	33.280
Total suspended solids	23.290	11.080
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Sand chlorination off-gas wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM
AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zironium di- oxide and hafnium diox- ide produced	
Chromium (total)	19.130	7.825
Cyanide (total)	12.610	5.216
Lead	18.260	8.694
Nickel	83.460	55.210
Ammonia (as N)	5,795.000	2,547.000
Total suspended solids	1,782.000	847.700
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Sand chlorination area-vent wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	3.751	1.534
Cyanide (total)	2.472	1.023
Lead	3.580	1.705
Nickel	16.370	10.830
Ammonia (as N)	1,136.000	449.500
Total suspended solids	349.500	166.200
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(d) $SiCl_4$ purification wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconium d oxide and hafnium diox ide produced	
Chromium (total) Cyanide (total)	3.299 2.174	1.350 0.900
Lead	3.149	1.500
Nickel	14.400	9.522
Ammonia (as N)	999.500	439.400
Total suspended solids	307.400	146.200
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Feed makeup wet air pollution control. $\label{eq:control}$

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di oxide and hafnium diox ide produced	
Chromium (total)	2.501	1.023
Cyanide (total)	1.648	0.682
Lead	2.387	1.137
Nickel	10.910	7.217
Ammonia (as N)	757.500	333.000
Total suspended solids	233.000	110.800
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(f) Iron extraction (MIBK) steam stripper bottoms.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di oxide and hafnium diox- ide produced	
Chromium (total)	0.987	0.404
Cyanide (total)	0.651	0.269
Lead	0.942	0.449
Nickel	4.308	2.850
Ammonia (as N)	299.100	131.500
Total suspended solids	92.000	43.760
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Zirconium filtrate.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di oxide and hafnium diox ide produced	
Chromium (total)	17.070 11.250	6.982 4.655
Lead	16.290	7.758
Nickel	74.480	49.260
Ammonia (as N)	5,171.000	2,273.000
Total suspended solids	1,590.000	756.400
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(h) Hafnium filtrate.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconium d oxide and hafnium diox ide produced	
Chromium (total)	0.000	0.000
Cyanide (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Ammonia (as N)	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Calcining caustic wet air pollution control. $\,$

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	3.959 2.609	1.619 1.080
Lead	3.779	1.799
Nickel	17.270	11.430
Ammonia (as N)	1,199.000	527.200
Total suspended solids	368.900	175.400
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(j) Pure chlorination wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconiun and hafnium produced	
Chromium (total)	16.860	6.897
Cyanide (total)	11.110	4.598
Lead	16.090	7.663
Nickel	73.570	48.660
Ammonia (as N)	5,108.000	2,245.000
Total suspended solids	1,571.000	747.200
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(k) Reduction area-vent wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium and hafnium produced	
Chromium (total)	1.622	0.663
Cyanide (total)	1.069	0.442
Lead	1.548	0.737
Nickel	7.077	4.681
Ammonia (as N)	491.300	216.000
Total suspended solids	151.100	71.880
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(l) Magnesium recovery off-gas wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconiun and hafnium produced	
Chromium (total)	9.123 6.013 8.708	3.732 2.488 4.147
Nickel	39.810	26.330
Ammonia (as N)	2,764.000	1,215.000
Total suspended solids	850.100	404.300
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

 $\begin{tabular}{ll} \begin{tabular}{ll} \beg$

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	,	
	mg/kg (pounds per millior pounds) of zirconium and hafnium produced	
Chromium (total)	5.068	2.073
Cyanide (total)	3.340	1.382
Lead	4.838	2.304
Nickel	22.110	14.630
Ammonia (as N)	1,535.000	675.000
Total suspended solids	472.200	224.600
pH	(1)	(1)

 $^{^{\}mbox{\scriptsize 1}}$ Within the range of 7.5 to 10.0. .

(n) Zirconium chip crushing wet air pollution control.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium and hafnium produced	
Chromium (total)	0.000 0.000 0.000 0.000 0.000 0.000 (1)	0.000 0.000 0.000 0.000 0.000 0.000 (1)

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

 $\begin{array}{cccc} \hbox{(o)} & Acid & leachate & from & zirconium \\ metal & production. \end{array}$

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per milli pounds) of pure z conium produced	
Chromium (total)	12.970	5.304
Cyanide (total	8.545	3.536
Lead	12.380	5.893
Nickel	56.570	37.420
Ammonia (as N)	3,928.000	1,727.000
Total suspended solids	1,208.000	574.600
pH	(1)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(p) Acid leachate from zirconium alloy production.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconiun contained in alloys pro duced	
Chromium (total)	6.939	2.839
Cyanide (total)	4.574	1.893
Lead	6.624	3.154
Nickel	30.280	20.030
Ammonia (as N)	2,102.000	924.200
Total suspended solids	646.600	307.600
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

 $\mbox{(q)}$ Leaching rinse water from zirconium metal production.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconiur produced	
Chromium (total)	25.930 17.090 24.750 113.200 7,856.000 2,416.000	10.610 7.072 11.790 74.840 3,453.000 1,149.000

 $^{^{\}mbox{\scriptsize 1}}$ Within the range of 7.5 to 10.0.

(r) Leaching rinse water from zirconium alloy production.

BPT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average	
	mg/kg (pounds per million pounds) of zirconium in alloys produced		
Chromium (total)	0.347 0.229 0.331 1.515 105.200 32.350 (1)	0.142 0.095 0.158 1.002 46.240 15.390	

¹ Within the range of 7.5 to 10.0 at all times.

§ 421.333 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable:

(a) Sand drying wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di oxide and hafnium diox ide produced	
Chromium (total)	0.210	0.085
Cyanide (total)	0.114	0.045
Lead	0.159	0.074
Nickel	0.312	0.210
Ammonia (as N)	75.710	33.280

(b) Sand chlorination off-gas wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	16.080	6.521
Cyanide (total)	8.694	3.478
Lead	12.170	5.651
Nickel	23.910	16.080
Ammonia (as N)	5,795.000	2,547.000

(c) Sand chlorination area-vent wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconium d oxide and hafnium diox ide produced	
Chromium (total)	3.154	1.279
Cyanide (total)	1.705	0.682
Lead	2.387	1.108
Nickel	4.688	3.154
Ammonia (as N)	1,136.000	499.500

(d) $SiCl_4$ purification wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconium d oxide and hafnium diox ide produced	
Chromium (total)	2.774	1.125
Cyanide (total)	1.500	0.600
Lead	2.099	0.975
Nickel	4.124	2.774
Ammonia (as N)	999.500	439.400

(e) Feed makeup wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di oxide and hafnium diox ide produced	
Chromium (total)	2.103	0.852
Cyanide (total)	1.137	0.455
Lead	1.591	0.739
Nickel	3.126	2.103
Ammonia (as N)	757.500	333.000

$\begin{array}{cccc} \hbox{(f)} & Iron & extraction & \hbox{(MIBK)} & steam \\ stripper bottoms. \end{array}$

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di oxide and hafnium diox ide produced	
Chromium (total)	0.830	0.337
Cyanide (total)	0.449	0.180
Lead	0.628	0.292
Nickel	1.234	0.830
Ammonia (as N)	299.100	131.500

(g) Zirconium filtrate.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	14.350	5.819
Cyanide (total)	7.758	3.103
Lead	10.860	5.043
Nickel	21.330	14.350
Ammonia (as N)	5,171.000	2,273.00

(h) Hafnium filtrate.

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BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	0.000	0.000
Cyanide (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Ammonia (as N)	0.000	0.000

(i) Calcining caustic wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconium o oxide and hafnium diox ide produced	
Chromium (total)	3.329	1.350
Cyanide (total)	1.799	0.720
Lead	2.519	1.170
Nickel	4.948	3.329
Ammonia (as N)	1,199.000	527.200

(j) Pure chlorination wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of zirconiu and hafnium produced	
Chromium (total)	14.180	5.748
Cyanide (total)	7.663	3.065
Lead	10.730	4.981
Nickel	21.070	14.180
Ammonia (as N)	5,108.000	2,245.000

 $\left(k\right)$ Reduction area-vent wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIROCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium and hafnium produced	
Chromium (total)	1.364	0.553
Cyanide (total)	0.737	0.295
Lead	1.032	0.479
Nickel	2.027	1.364
Ammonia (as N)	491.300	216.000

(l) Magnesium recovery off-gas wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium and hafnium produced	
Chromium (total)	7.671 4.147 5.805 11.400 2,764.000	3.110 1.659 2.695 7.671 1,215.000

(m) Magnesium recovery area-vent wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconiur and hafnium produced	
Chromium (total) Cyanide (total) Lead Nickel Ammonia (as N)	4.262 2.304 3.225 6.335 1,535.000	1.728 0.921 1.497 4.262 675.000

(n) Zirconium chip crushing wet air pollution control.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconiun and hafnium produced	
Chromium (total)	0.000	0.000

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cyanide (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Ammonia (as N)	0.000	0.000

(o) Acid leachate from zirconium metal production. $\,$

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per millio pounds) of pure zin conium produced	
10.900 5.893	4.420 2.357
8.250	3.831
	10.900
3,928.000	1,674.000
	mg/kg (pound pounds) conium products 10.900 5.893

(p) Acid leachate from zirconium alloy production.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium contained in alloys pro- duced	
Chromium (total)	5.835	2.366
Cyanide (total)	3.154	1.262
Lead	4.416	2.050
Nickel	8.674	5.835
Ammonia (as N)	2,102.000	895.000

(q) Leaching rinse water from zirconium metal production.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1	Maximum for monthly
	daý	average '
	mg/kg (pounds per millior pounds) of pure zir conium produced	
Chromium (total)	21.810	8.840
Cyanide (total)	11.790	4.715
Lead	16.500	7.661
Nickel	32.410	21.810

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BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N)	7,856.000	3,453.000

(r) Leaching rinse water from zirconium alloy production.

BAT LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium contained in alloys pro- duced	
Chromium (total)	0.292	0.118
Cyanide (total)	0.158	0.063
Lead	0.221	0.103
Nickel	0.434	0.292
Ammonia (as N)	105.200	46.240

§ 421.334 Standards of performance for new sources.

Any new source subject to this subpart shall achieve the following new source performance standards:

(a) Sand drying wet air pollution control.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	0.210	0.085
Cyanide (total)	0.114	0.045
Lead	0.159	0.074
Nickel	0.312	0.210
Ammonia (as N)	75.710	33.280
Total suspended solids	8.520	6.816
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Sand chlorination of f-gas wet air pollution control. $\,$

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di oxide and hafnium diox- ide produced	
Chromium (total)	16.080	6.521
Cyanide (total)	8.694	3.478
Lead	12.170	5.651
Nickel	23.910	16.080
Ammonia (as N)	5.795.000	2.547.000
Total suspended solids	652.100	521.000
pH	(1)	(1)

¹Within the range of 7.5 to 10.0 at all times.

 $\mbox{(c)}$ Sand chlorination area-vent wet air pollution control.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di oxide and hafnium diox ide produced	
Chromium (total)	3.154 1.705	1.279 0.682
Lead	2.387	1.108
Nickel	4.688	3.154
Ammonia (as N)	1,136.000	499.500
Total suspended solids	127.900	102.300
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(d) SiC_{14} purification wet air pollution control.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di oxide and hafnium diox ide produced	
Chromium (total)	2.774	1.125
Cyanide (total)	1.500	0.600
Lead	2.099	0.975
Nickel	4.124	2.774
Ammonia (as N)	999.500	439.400
Total suspended solids	112.500	89.980
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(e) Feed makeup wet air pollution control.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Maximum for any 1 day	Maximum for monthly average
mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
2.103	0.852
1.137	0.455
1.591	0.739
3.126	2.103
757.500	333.000
85.250	68.200
(¹)	(¹)
	for any 1 day mg/kg (pound pounds) of oxide and ide produce 2.103 1.137 1.591 3.126 757.500 85.250

¹ Within the range of 7.5 to 10.0 at all times.

$\begin{array}{ccc} \hbox{(f)} & Iron & extraction & \hbox{(MIBK)} & steam \\ stripper bottoms. \end{array}$

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	0.830 0.449 0.628	0.337 0.180 0.292
Nickel	1.234	0.830
Ammonia (as N)	299.100	131.500
Total suspended solids	33.660	26.930
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(g) Zirconium filtrate.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	14.350 7.758	5.819 3.103
Lead Nickel	10.860 21.330	5.043 14.350
Ammonia (as N)	5,171.000	2,273.000
Total suspended solids	581.900	465.500
pH	(¹)	(1)

 $^{^{\}mbox{\scriptsize 1}}\mbox{Within the range of 7.5 to 10.0 at all times.}$

(h) Hafnium filtrate.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	0.000	0.000
Cyanide (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Ammonia (as N)	0.000	0.000
Total suspended solids	0.000	0.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(i) Calcining caustic wet air pollution control. $\,$

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di oxide and hafnium diox- ide produced	
Chromium (total)	3.329	1.350
Cyanide (total)	1.799	0.720
Lead	2.519	1.170
Nickel	4.948	3.329
Ammonia (as N)	1,199.000	527.200
Total suspended solids	135.000	108.000
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

$(j) \mbox{ Pure chlorination wet air pollution control.}$

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium and hafnium produced	
Chromium (total)	14.180 7.663	5.748 3.065
Lead Nickel	10.730 21.070	4.981 14.180
Ammonia (as N) Total suspended solids	5,108.000 574.800	2,245.000 459.800
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

 $\left(k\right)$ Reduction area-vent wet air pollution control.

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NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium and hafnium produced	
Chromium (total)	1.364 0.737 1.032 2.027 491.300 55.290	0.553 0.295 0.479 1.364 216.000 44.230
<u>pH</u>	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(l) Magnesium recovery off-gas wet air pollution control.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium and hafnium produced	
Chromium (total)	7.671	3.110
Cyanide (total)	4.147	1.659
Lead	5.805	2.695
Nickel	11.400	7.671
Ammonia (as N)	2,764.000	1,215.000
Total suspended solids	404.300	248.800
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(m) Magnesium recovery area-vent wet air pollution control.

NSPS LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium and hafnium produced	
Chromium (total)	4.262 2.304 3.225 6.335 1,535.000 172.800	1.728 0.921 1.497 4.262 675.000 138.200
pH	(1)	(1)

 $^{^{\}mbox{\scriptsize 1}}\mbox{\ensuremath{\mbox{Within}}}$ the range of 7.5 to 10.0 at all times.

(n) Zirconium chip crushing west air pollution control.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of zirconium n produced
Chromium (total)	0.000 0.000 0.000 0.000 0.000 0.000 (1)	0.000 0.000 0.000 0.000 0.000 0.000 (1)

¹ Within the range of 7.5 to 10.0 at all times.

(o) Acid leachate from zirconium metal production. $\label{eq:constraint}$

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of pure zin conium produced	
Chromium (total)	10.900	4.420
Cyanide (total)	5.893	2.357
Lead	8.250	3.831
Nickel	16.210	10.900
Ammonia (as N)	3,928.000	1,674.000
Total suspended solids	442.000	353.600
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

$\begin{tabular}{ll} \begin{tabular}{ll} (p) & Acid & leachate & from & zirconium \\ alloy & production. \end{tabular}$

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of zirconium in alloys pro-
Chromium (total)	5.835 3.154 4.416 8.674 2,102.000 236.600	2.366 1.262 2.050 5.835 895.800 189.300
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

(q) Leaching rinse water from zirconium metal production.

NSPS LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pound pounds) c conium pro	of pure zir-
Chromium (total)	21.810 11.790 16.500 32.410 7.856.000	8.840 4.715 7.661 21.810 3.453.000
Total suspended solidspH	884.000 (¹)	707.200 (¹)

 $^{^{\}mbox{\scriptsize 1}}\mbox{\ensuremath{\mbox{Within}}}$ the range of 7.5 to 10.0 at all times.

(r) Leaching rinse water from zirconium alloy production.

NSPS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	pounds) (ds per million of zirconium in alloys pro-
Chromium (total)	0.292	0.118
Cyanide (total)	0.158	0.063
Lead	0.221	0.103
Nickel	0.434	0.292
Ammonia (as N)	105.200	46.240
Total suspended solids	11.840	9.468
pH	(1)	(1)

¹ Within the range of 7.5 to 10.0 at all times.

§421.335 [Reserved]

§ 421.336 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary zirconium and hafnium process wastewater introduced into a POTW shall not exceed the following values:

(a) Sand drying wet air pollution con-

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	0.210	0.085
Cyanide (total)	0.114	0.045
Lead	0.159	0.074
Nickel	0.312	0.210
Ammonia (as N)	75.710	33.280

(b) Sand chlorination off-gas wet air pollution control.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconium d oxide and hafnium diox ide produced	
Chromium (total)	16.080	6.521
Cyanide (total)	8.690	3.478
Lead	12.170	5.651
Nickel	23.910	16.080
Ammonia (as N)	5,795.000	2,547.000

(c) Sand chlorination area vent wet air pollution control.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di oxide and hafnium diox- ide produced	
Chromium (total)	3.154	1.279
Cyanide (total)	1.705	0.682
Lead	2.387	1.108
Nickel	4.688	3.154
Ammonia (as N)	1,136.000	499.500

(d) $SiCl_4$ purification wet air pollution control.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	2.774	1.125
Cyanide (total)	1.500	0.600
Lead	2.099	0.975
Nickel	4.124	2.774
Ammonia (as N)	999.500	439.400

(e) Feed makeup wet air pollution control.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di- oxide and hafnium diox- ide produced	
Chromium (total)	2.103	0.852
Cyanide (total)	1.137	0.455
Lead	1.591	0.739
Nickel	3.126	2.103
Ammonia (as N)	757.500	333.000

$\begin{array}{ccc} \hbox{(f)} & Iron & extraction & \hbox{(MIBK)} & steam \\ stripper bottoms. \end{array}$

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconium d oxide and hafnium diox ide produced	
Chromium (total)	0.830	0.337
Cyanide (total)	0.449	0.180
Lead	0.628	0.292
Nickel	1.234	0.830
Ammonia (as N)	299.100	131.500

(g) Zirconium filtrate.

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PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of zirconium di oxide and hafnium diox ide produced	
Chromium (total)	14.350	5.819
Cyanide (total)	7.758	3.103
Lead	10.860	5.043
Nickel	21.340	14.350
Ammonia (as N)	5,171.000	2,273.000

(h) Hafnium filtrate.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium di oxide and hafnium diox ide produced	
Chromium (total)	0.000	0.000
Cyanide (total)	0.000	0.000
Lead	0.000	0.000
Nickel	0.000	0.000
Ammonia (as N)	0.000	0.000

(i) Calcining caustic wet air pollution control. $\label{eq:control}$

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconium d oxide and hafnium diox ide produced	
Chromium (total)	3.329	1.350
Cyanide (total)	1.799	0.720
Lead	2.519	1.170
Nickel	4.948	3.329
Ammonia (as N)	1,199.000	527.200

(j) Pure chlorination wet air pollution control.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
		ds per million of zirconium n produced
Chromium (total)	14.180	5.748
Cyanide (total)	7.663	3.065
Lead	10.730	4.981
Nickel	21.007	14.180
Ammonia (as N)	5,108.000	2,245,000

$\mbox{(k)}$ Reduction area-vent wet air pollution control.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of Zirconium and hafnium produced	
Chromium (total)	1.364 0.737 1.032 2.027 491.300	0.553 0.295 0.479 1.364 216.000

(l) Magnesium recovery off-gas wet air pollution control.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconiun and hafnium produced	
Chromium (total)	7.671 4.147 5.805 11.400 2,764.000	3.110 1.659 2.695 7.671 1,215.000

(m) Magnesium recovery area-vent wet air pollution control.

PSNS LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millio pounds) of zirconiu and hafnium produced	
Chromium (total)	4.262	1.728

PSNS LIMITATIONS FOR THE PRIMARY ZIR-CONIUM AND HAFNIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Cyanide (total)	2.304 3.225 6.335 1,535,000	0.921 1.497 4.262 675.00

(n) Zirconium chip crushing wet air pollution control.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millic pounds) of zirconiu and hafnium produced	
Chromium (total)	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000

(o) Acid leachate from zirconium metal production.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of pure z conium produced	
Chromium (total) Cyanide (total) Lead Nickel Ammonia (as N)	10.900 5.893 8.250 16.210 3,928.000	4.420 2.357 3.831 10.900 1,674.00

(p) Acid leachate from zirconium alloy production.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconium contained in alloys pro- duced	
Chromium (total)	5.835 3.154 4.416 8.674	2.366 1.262 2.050 5.835

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY—Continued

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
Ammonia (as N)	2,102.000	895.800

(q) Leaching rinse water from zirconium metal production.

PSNS LIMITATIONS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per millior pounds) of pure zir conium produced	
Chromium (total)	21.810 11.790 16.500 32.410 7,856.000	8.840 4.715 7.661 21.810 3,453.000

(r) Leaching rinse water from zirconium alloy production.

PSNS FOR THE PRIMARY ZIRCONIUM AND HAFNIUM SUBCATEGORY

TIAI NIOM COD	OATEOORT	
Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of zirconiun contained in alloys pro duced	
Chromium (total)	0.292	0.118
Cyanide (total)	0.158	0.063
Lead	0.221	0.103
Nickel	0.434	0.292
Ammonia (as N)	105.200	46.240

§421.337 [Reserved]

PART 422—PHOSPHATE MANUFACTURING POINT SOURCE CATEGORY

Subpart A—Phosphorus Production Subcategory

Sec.

422.10 $\,$ Applicability; description of the phosphorus production subcategory.

Subpart B—Phosphorus Consuming Subcategory

422.20 Applicability; description of the phosphorus consuming subcategory.

Subpart C—Phosphate Subcategory

422.30 Applicability; description of the phosphate subcategory.

Subpart D—Defluorinated Phosphate Rock Subcategory

- 422.40 Applicability; description of the defluorinated phosphate rock subcategory.
- 422.41 Specialized definitions.
- 422.42 Effluent limitations and guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 422.43 Effluent limitations and guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 422.44 [Reserved]
- 422.45 Standards of performance for new sources.
- 422.46 [Reserved]
- 422.47 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology.

Subpart E—Defluorinated Phosphoric Acid Subcategory

- 422.50 Applicability; description of the defluorinated phosphoric acid subcategory.
- 422.51 Specialized definitions.
- 422.52 Effluent limitations and guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- 422.53 Effluent limitations and guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- 422.54 [Reserved]
- 422.55 Standards of performance for new sources.
- 422.56 [Reserved]
- 422.57 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology.

Subpart F—Sodium Phosphates Subcategory

- 422.60 Applicability; description of the sodium phosphates subcategory.
- 422.61 Specialized definitions.